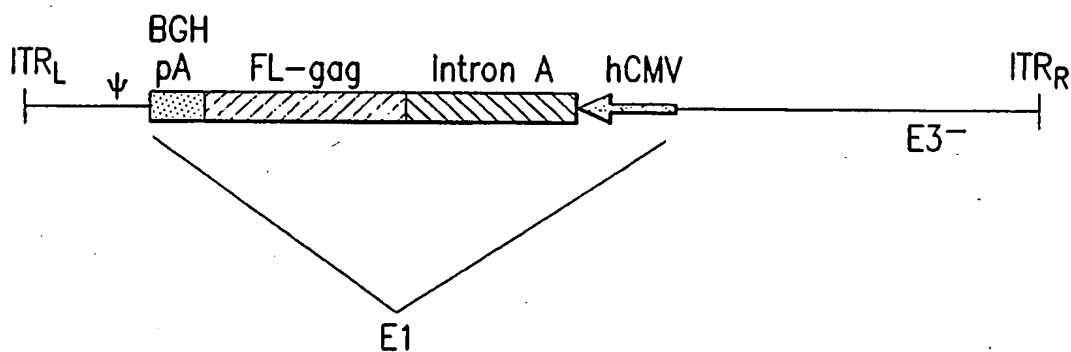


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ORIGINAL ADENOVECTOR CONSTRUCT:



ORIGINAL HIV-1 gag ADENOVECTOR.

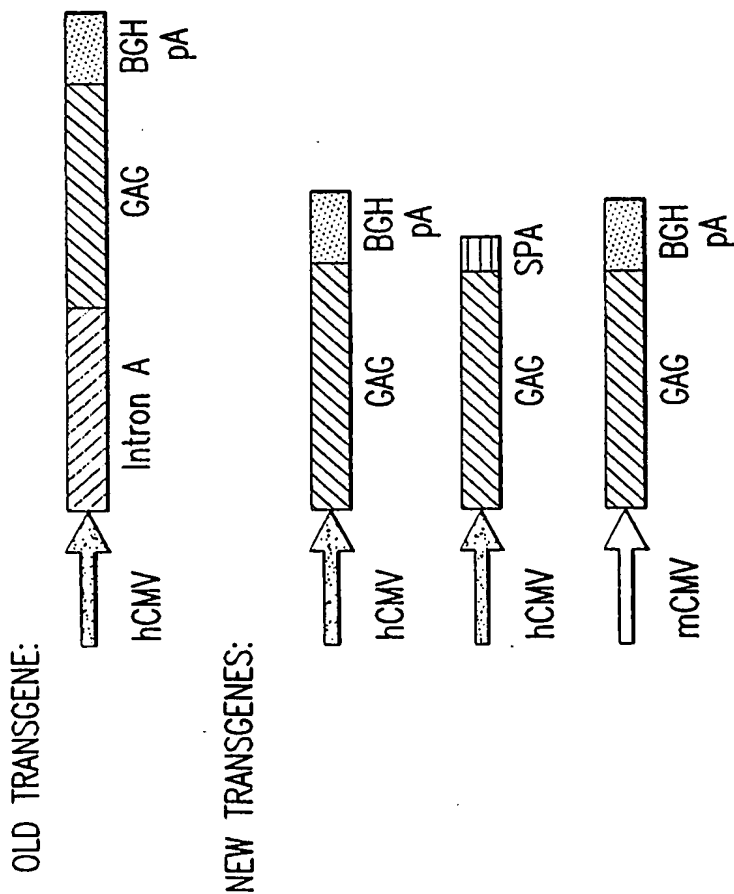
FIG.1

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Sequence of the open reading frame for FL-qag (human codon optimized)

atgggtgctagggcttctgtgctgtctggtggtgagctggacaagtgggagaagatcaggctgaggcctggtg
caagaagaagtacaagctaaagcacattgtgtgggcctccaggagctggagaggtttgctgtgaaccctggc
ctgctggagacctctgaggggtgcaggcagatcctgggccagctccagccctccctgcaaacaggctctgagg
agctgaggtccctgtacaacacagtggctaccctgtactgtgtgcaccagaagattgatgtgaaggacaccaag
gaggccctggagaagattgaggaggagcagaacaagtccaagaagaaggcccagcaggctgctgctggc
acaggcaactccagccagggtgtcccagaactacccattgtgcagaacctccagggccagatggtgcaccag
gccatctcccccgaccctgaatgcctgggtgaaggtggtggaggagaaggccttctccctgaggtgatccc
catgttctctgcccctgtctgaggggtgccacccccaggacctgaacaccatgctgaacacagtggggggccatc
aggctgccatgcagatgctgaaggagaccatcaatgaggaggctgctgagtgggacaggctgcatcctgtgc
acgctggccccattgcccccgccagatgagggagcccaggggctctgacattgctggcaccacctccacct
ccaggagcagattggctggatgaccaacaacccccccatccctgtgggggaaatctacaagaggtggatcat
cctgggcctgaacaagattgtgaggatgtactccccacctccatcctggacatcaggcagggccccaaggag
cccttcagggaactatgtggacaggttctacaagacctgagggctgagcaggcctccaggaggtgaagaact
ggatgacagagaccctgctggtgcagaatgccaacctgactgcaagaccatcctgaaggccctgggccctg
ctgccacctggaggagatgatgacagcctgccaggggtggggggccctggtcacaaggccagggtgctg
gctgaggccatgtcccagggtgaccaactccgccaccatcatgatgcagaggggcaacttcaggaaccagag
gaagacagtgaagtgttcaactgtggcaaggtgggccacattgccaagaactgtagggcccccaggaaga
agggctgctggaagtgtggcaaggagggccaccagatgaaggactgcaatgagaggcaggccaacttcctg
ggcaaaatctggccctcccacaagggcaggcctggcaacttctccagtcaggcctgagcccacagcccct
cccgaggagtccctcaggtttggggaggagaagaccacccccagccagaagcaggagcccattgacaagg
agctgtacccccctggcctccctgaggtccctgtttggcaacgacccctcctcccagtaaaataaagcccgggca
gat

FIG.2



DIAGRAMMATIC REPRESENTATION OF THE ORIGINAL HIV-1 GAG TRANSGENE AND THE SERIES OF NEW TRANSGENE CONSTRUCTIONS.

FIG.3

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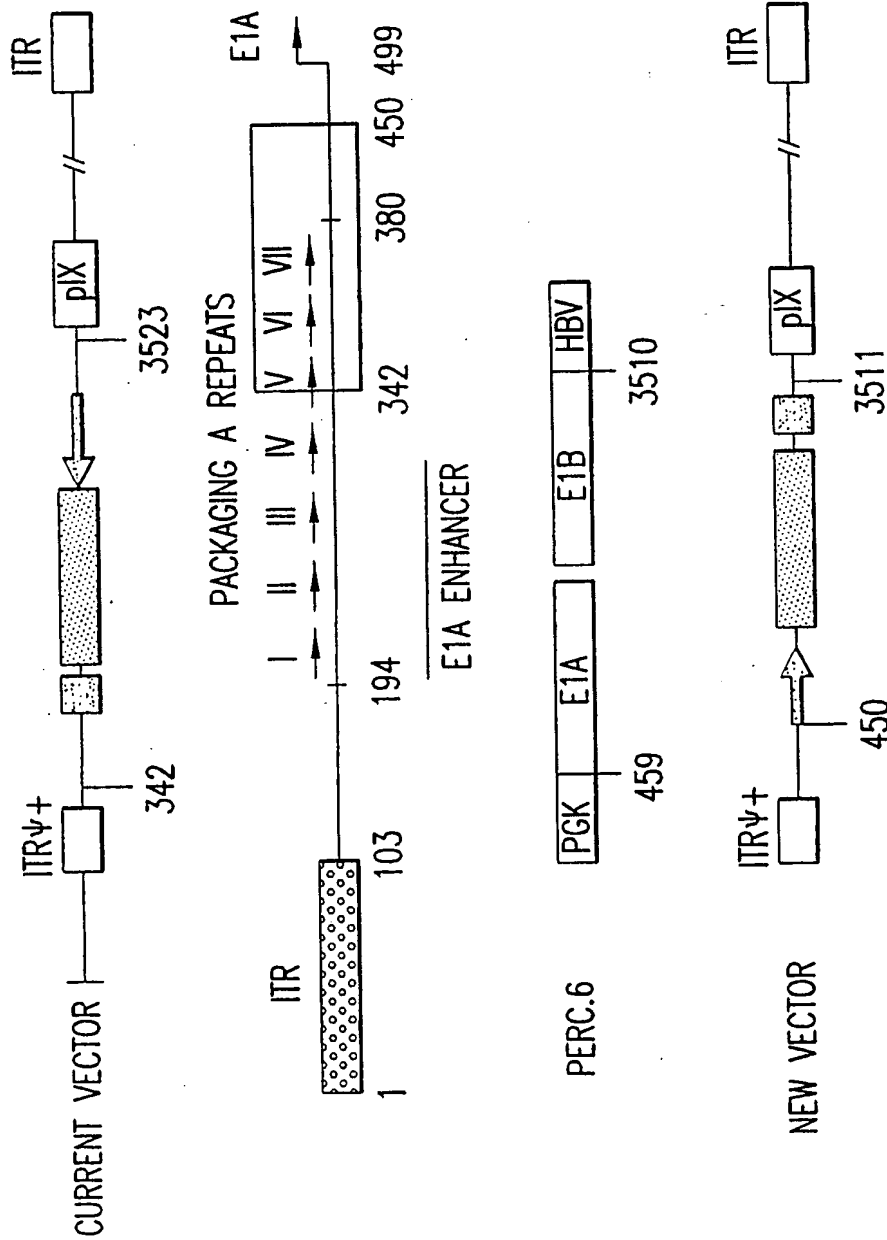


FIG.4

MODIFICATIONS MADE TO THE CURRENT ADENOVECTOR BACKBONE IN THE GENERATION OF THE NEW VECTOR.

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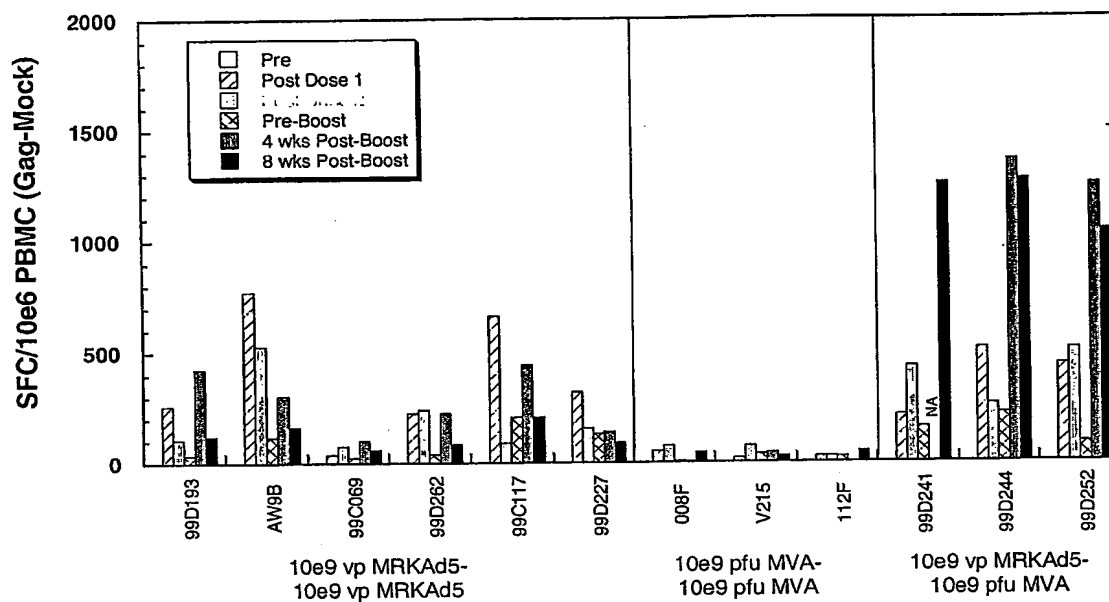


FIG. 5

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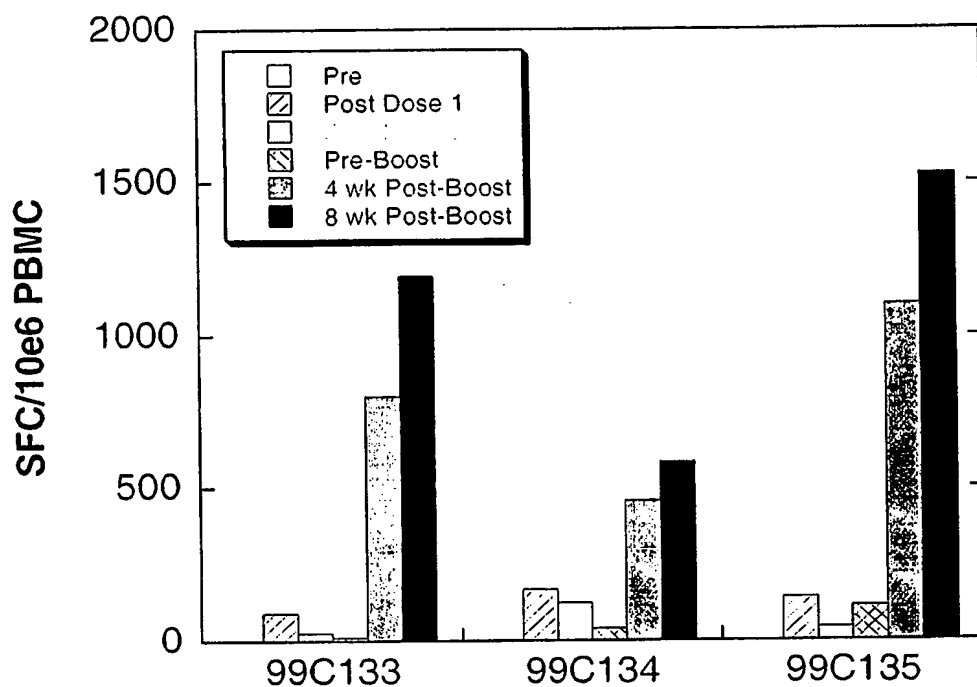
Ad5-pox Application

FIG. 6

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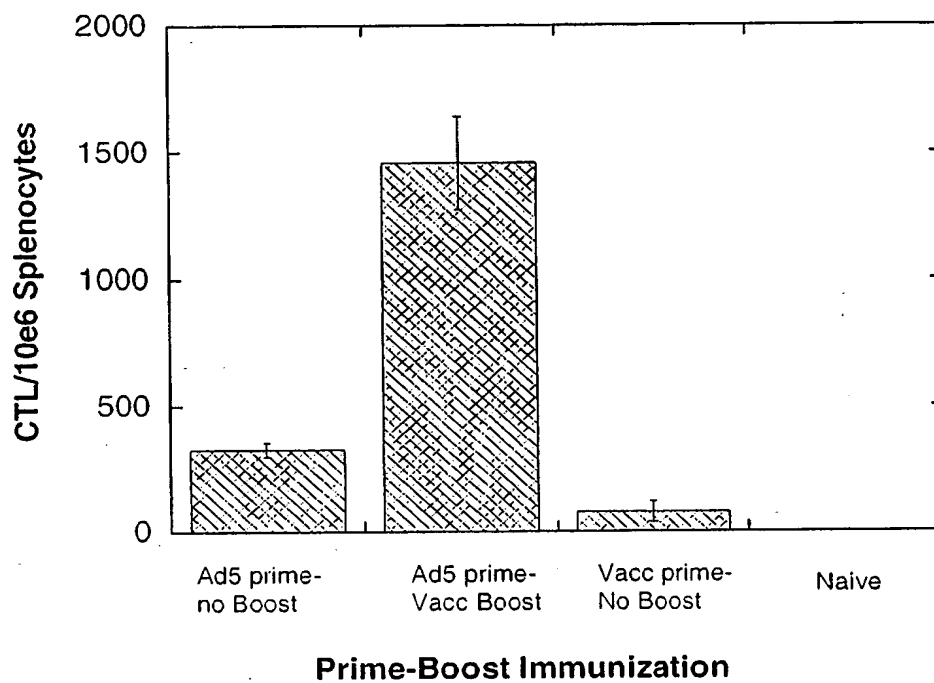


FIG. 7

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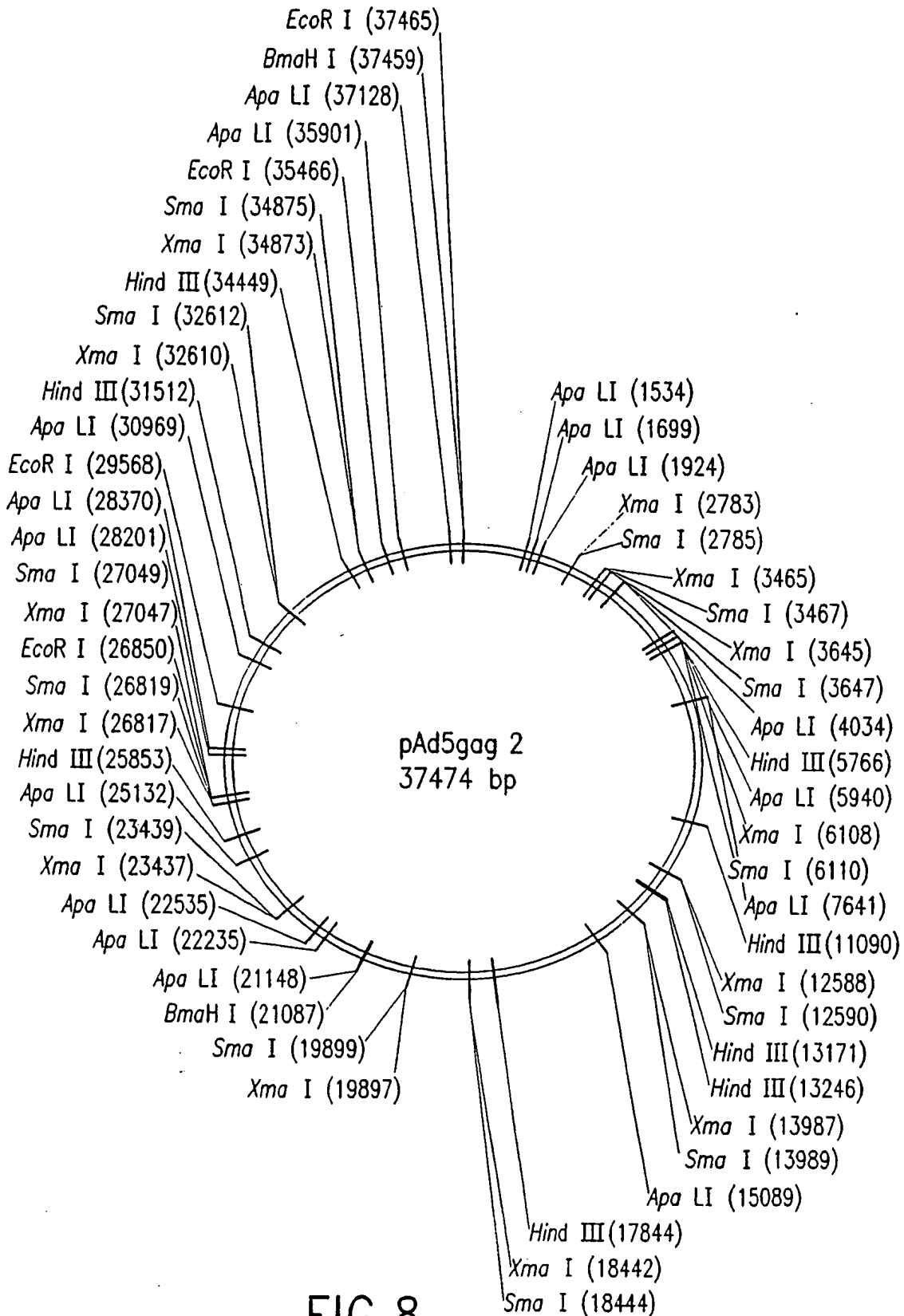


FIG.8

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PacI

1 TTCTTAATTA ACATCATCAA TAATATACCT TATTTTGGAT TGAAGCCAAT
AAGAATTAAT TGTAGTAGTT ATTATATGGA ATAAAACCTA ACTTCGGTTA

51 ATGATAATGA GGGGGTGGAG TTTGTGACGT GGCGCGGGGC GTGGGAACGG
TACTATTACT CCCCCACCTC AAACACTGCA CCGCGCCCCG CACCCTTGCC

101 GGCGGGTGAC GTAGTAGTGT GGCGGAAGTG TGATGTTGCA AGTGTGGCGG
CCGCCCCACTG CATCATCACA CCGCCTTCAC ACTACAACGT TCACACCGCC

151 AACACATGTA AGCGACGGAT GTGGCAAAAG TGACGTTTTT GGTGTGCGCC
TTGTGTACAT TCGCTGCCTA CACCGTTTTT ACTGCAAAA CCACACGCGG

201 GGTGTACACA GGAAGTGACA ATTTTCGCGC GGTTTTAGGC GGATGTTGTA
CCACATGTGT CCTTCACTGT TAAAAGCGCG CCAAATCCG CCTACAACAT

251 GTAAATTTGG GCGTAACCGA GTAAGATTTG GCCATTTTCG CGGGAAAAC
CATTTAAACC CGCATTGGCT CATTCTAAAC CGGTAAAAGC GCCCTTTTGA

301 GAATAAGAGG AAGTGAAATC TGAATAATTT TGTGTTACTC ATAGCGCGTA
CTTATTCTCC TTCACTTTAG ACTTATTAAC ACACAATGAG TATCGCGCAT

351 ATATTTGTCT AGGGCCGCGG GGAATTTGAC CGTTTACGTG GAGACTCGCC
TATAAACAGA TCCCGGCGCC CCTGAAACTG GCAAATGCAC CTCTGAGCGG

401 CAGGTGTTTT TCTCAGGTGT TTTCCGCGTT CCGGGTCAAA GTTGGCGTTT
GTCCACAAAA AGAGTCCACA AAAGGCGCAA GGCCAGTTT CAACCGCAAA

451 TATTATTATA GGCGGCCGCG ATCCATTGCA TACGTTGTAT CCATATCATA
ATAATAATAT CCGCCGGCGC TAGGTAACGT ATGCAACATA GGTATAGTAT

501 ATATGTACAT TTATATTGGC TCATGTCCAA CATTACCGCC ATGTTGACAT
TATACATGTA AATATAACCG AGTACAGGTT GTAATGGCGG TACAACGTGA

551 TGATTATTGA CTAGTTATTA ATAGTAATCA ATTACGGGGT CATTAGTTCA
ACTAATAACT GATCAATAAT TATCATTAGT TAATGCCCCA GTAATCAAGT

601 TAGCCCATAT ATGGAGTTCC GCGTTACATA ACTTACGGTA AATGGCCCGC
ATCGGGTATA TACCTCAAGG CGCAATGTAT TGAATGCCAT TTACCGGGCG

651 CTGGCTGACC GCCCAACGAC CCCC GCCCAT TGACGTCAAT AATGACGTAT
GACCGACTGG CGGGTTGCTG GGGGCGGGTA ACTGCAGTTA TTAATGCATA

701 GTTCCCATAG TAACGCCAAT AGGGACTTTC CATTGACGTC AATGGGTGGA
CAAGGGTATC ATTGCGGTGA TCCCTGAAAG GTAACGTCAG TTACCCACCT

751 GTATTTACGG TAAACTGCC ACTTGCCAGT ACATCAAGTG TATCATATGC
CATAAATGCC ATTTGACGGG TGAACGTC TAATGTTTAC ATAGTATACG

FIG.9A-1

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801	CAAGTACGCC GTTTCATGCGG	CCCTATTGAC GGGATAACTG	GTCAATGACG CAGTTACTGC	GTAAATGGCC CATTTACCGG	CGCCTGGCAT GCGGACCGTA
851	TATGCCCAGT ATACGGGTCA	ACATGACCTT TGTACTGGAA	ATGGGACTTT TACCCTGAAA	CCTACTTGGC GGATGAACCG	AGTACATCTA TCATGTAGAT
901	CGTATTAGTC GCATAATCAG	ATCGCTATTA TAGCGATAAT	CCATGGTGAT GGTACCACTA	GCGGTTTTGG CGCCAAAACC	CAGTACATCA GTCATGTAGT
951	ATGGGCGTGG TACCCGCACC	ATAGCGGTTT TATCGCCAAA	GA CTCACGGG CTGAGTGCCC	GATTTCCAAG CTAAAGGTTT	TCTCCACCCC AGAGGTGGGG
1001	ATTGACGTCA TAACTGCAGT	ATGGGAGTTT TACCCTCAAA	GTTTTGGCAC CAAAACCGTG	CAAAATCAAC GTTTTAGTTG	GGGACTTTCC CCCTGAAAGG
1051	AAAATGTCGT TTTTACAGCA	AACAACCTCCG TTGTTGAGGC	CCCCATTGAC GGGGTAAC TG	GCAAATGGGC CGTTTACCCG	GGTAGGCGTG CCATCCGCAC
1101	TACGGTGGGA ATGCCACCCCT	GGTCTATATA CCAGATATAT	AGCAGAGCTC TCGTCTCGAG	GTTTAGTGAA CAAATCACTT	CCGTCAGATC GGCAGTCTAG
1151	GCCTGGAGAC CGGACCTCTG	GCCATCCACG CGGTAGGTGC	CTGTTTTGAC GACAAAAC TG	CTCCATAGAA GAGGTATCTT	GACACCGGGA CTGTGGCCCT
1201	CCGATCCAGC GGCTAGGTCTG	CTCCGCGGCC GAGGCGCCGG	GGGAACGGTG CCCTTGCCAC	CATTGGAACG GTAACCTTGC	CGGATTCCCC GCCTAAGGGG
1251	GTGCCAAGAG CACGGTTCTC	TGAGATCTAC ACTCTAGATG	CATGGGTGCT GTACCCACGA	AGGGCTTCTG TCCCGAAGAC	TGCTGTCTGG ACGACAGACC
1301	TGGTGAGCTG ACCACTCGAC	GACAAGTGGG CTGTTACACC	AGAAGATCAG TCTTCTAGTC	GCTGAGGCCT CGACTCCGGA	GGTGGCAAGA CCACCGTTCT
1351	AGAAGTACAA TCTTCATGTT	GCTAAAGCAC CGATTTCTGT	ATTGTGTGGG TAACACACCC	CCTCCAGGGA GGAGGTCCCT	GCTGGAGAGG CGACCTCTCC
1401	TTTGCTGTGA AAACGACACT	ACCCTGGCCT TGGGACCGGA	GCTGGAGACC CGACCTCTGG	TCTGAGGGGT AGACTCCCCA	GCAGGCAGAT CGTCCGTCTA
1451	CCTGGGCCAG GGACCCGGTC	CTCCAGCCCT GAGGTCGGGA	CCCTGCAAAC GGGACGTTTG	AGGCTCTGAG TCCGAGACTC	GAGCTGAGGT CTCGACTCCA
1501	CCCTGTACAA GGGACATGTT	CACAGTGGCT GTGTCACCGA	ACCCTGTACT TGGGACATGA	GTGTGCACCA CACACGTGGT	GAAGATTGAT CTTCTAACTA
1551	GTGAAGGACA CACTTCCTGT	CCAAGGAGGC GGTTCCTCCG	CCTGGAGAAG GGACCTCTTC	ATTGAGGAGG TAACTCCTCC	AGCAGAACAA TCGTCTTGTT
1601	GTCCAAGAAG CAGGTTCTTC	AAGGCCACG TTCCGGGTCTG	AGGCTGCTGC TCCGACGACG	TGGCACAGGC ACCGTGCCG	AACTCCAGCC TTGAGGTCTG

FIG.9A-2

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1651	AGGTGTCCCA TCCACAGGGT	GAAC TACCCC CTTGATGGGG	ATTGTGCAGA TAACACGTCT	ACCTCCAGGG TGGAGGTCCC	CCAGATGGTG GGTCTACCAC
1701	CACCAGGCCA GTGGTCCGGT	TCTCCCCCG AGAGGGGGGC	GACCTGAAT CTGGGACTTA	GCCTGGGTGA CGGACCCACT	AGGTGGTGGA TCCACCACCT
1751	GGAGAAGGCC CCTCTTCCGG	TTCTCCCCTG AAGAGGGGAC	AGGTGATCCC TCCACTAGGG	CATGTTCTCT GTACAAGAGA	GCCCTGTCTG CGGGACAGAC
1801	AGGGTGCCAC TCCCACGGTG	CCCCCAGGAC GGGGGTCTCTG	CTGAACACCA GACTTGTGGT	TGCTGAACAC ACGACTTGTG	AGTGGGGGGC TCACCCCCCG
1851	CATCAGGCTG GTAGTCCGAC	CCATGCAGAT GGTACGTCTA	GCTGAAGGAG CGACTTCCTC	ACCATCAATG TGGTAGTTAC	AGGAGGCTGC TCCTCCGACG
1901	TGAGTGGGAC ACTCACCTG	AGGCTGCATC TCCGACGTAG	CTGTGCACGC GACACGTGCG	TGGCCCCATT ACCGGGGTAA	GCCCCGGGCC CGGGGGCCGG
1951	AGATGAGGGA TCTACTCCCT	GCCCAGGGGC CGGGTCCCCG	TCTGACATTG AGACTGTAAC	CTGGCACCAC GACCGTGGTG	CTCCACCCTC GAGGTGGGAG
2001	CAGGAGCAGA GTCCTCGTCT	TTGGCTGGAT AACCGACCTA	GACCAACAAC CTGGTTGTTG	CCCCCATCC GGGGGGTAGG	CTGTGGGGGA GACACCCCCT
2051	AATCTACAAG TTAGATGTTT	AGGTGGATCA TCCACCTAGT	TCCTGGGCCT AGGACCCGGA	GAACAAGATT CTTGTTCTAA	GTGAGGATGT CACTCCTACA
2101	ACTCCCCCAC TGAGGGGGTG	CTCCATCCTG GAGGTAGGAC	GACATCAGGC CTGTAGTCCG	AGGGCCCCAA TCCCGGGGTT	GGAGCCCTTC CCTCGGGAAG
2151	AGGGACTATG TCCCTGATAC	TGGACAGGTT ACCTGTCCAA	CTACAAGACC GATGTTCTGG	CTGAGGGCTG GACTCCCGAC	AGCAGGCCTC TCGTCCGGAG
2201	CCAGGAGGTG GGTCTCCAC	AAGAACTGGA TTCTTGACCT	TGACAGAGAC ACTGTCTCTG	CCTGCTGGTG GGACGACCAC	CAGAATGCCA GTCTTACGGT
2251	ACCCTGACTG TGGGACTGAC	CAAGACCATC GTTCTGGTAG	CTGAAGGCC GACTTCCGGG	TGGGCCCTGC ACCCGGGACG	TGCCACCCTG ACGGTGGGAC
2301	GAGGAGATGA CTCCTCTACT	TGACAGCCTG ACTGTCGGAC	CCAGGGGGTG GGTCCCCCAC	GGGGGCCCTG CCCCCGGGAC	GTCACAAGGC CAGTGTTCGG
2351	CAGGGTGCTG GTCCCACGAC	GCTGAGGCCA CGACTCCGGT	TGTCCCAGGT ACAGGGTCCA	GACCAACTCC CTGGTTGAGG	GCCACCATCA CGGTGGTAGT
2401	TGATGCAGAG ACTACGTCTC	GGGCAACTTC CCCGTTGAAG	AGGAACCAGA TCCTTGGTCT	GGAAGACAGT CCTTCTGTCA	GAAGTGCTTC CTTCACGAAG
2451	AACTGTGGCA TTGACACCGT	AGGTGGGCCA TCCACCCGGT	CATTGCCAAG GTAACGGTTC	AACTGTAGGG TTGACATCCC	CCCCCAGGAA GGGGGTCTTT

FIG.9A-3

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2501	GAAGGGCTGC	TGGAAGTGTG	GCAAGGAGGG	CCACCAGATG	AAGGACTGCA
	CTTCCCGACG	ACCTTCACAC	CGTTCCTCCC	GGTGGTCTAC	TTCTGTACGT
2551	ATGAGAGGCA	GGCCAAC TTC	CTGGGCAAAA	TCTGGCCCTC	CCACAAGGGC
	TACTCTCCGT	CCGGTTGAAG	GACCCGTTTT	AGACCGGGAG	GGTGTTCGGC
2601	AGGCCTGGCA	ACTTCCTCCA	GTCCAGGCCT	GAGCCCACAG	CCCCTCCCGA
	TCCGGACCGT	TGAAGGAGGT	CAGGTCCGGA	CTCGGGTGTC	GGGGAGGGCT
2651	GGAGTCCTTC	AGGTTTGGGG	AGGAGAAGAC	CACCCCCAGC	CAGAAGCAGG
	CCTCAGGAAG	TCCAAACCCC	TCCTCTTCTG	GTGGGGGTCT	GTCTTCGTCC
2701	AGCCCATTGA	CAAGGAGCTG	TACCCCTGG	CCTCCCTGAG	GTCCCTGTTT
	TGGGTAAC	GTTCTCGAC	ATGGGGGACC	GGAGGGACTC	CAGGGACAAA
2751	GGCAACGACC	CCTCCTCCCA	GTAAATAAAA	GCCCGGGCAG	ATCTGCTGTG
	CCGTTGCTGG	GGAGGAGGGT	CATTTTATTT	CGGGCCCGTC	TAGACGACAC
2801	CCTTCTAGTT	GCCAGCCATC	TGTTGTTTGC	CCCTCCCCCG	TGCCTTCCTT
	GGAAGATCAA	CGGTCGGTAG	ACAACAAACG	GGGAGGGGGC	ACGGAAGGAA
2851	GACCCTGGAA	GGTGCCACTC	CCACTGTCCT	TTCCTAATAA	AATGAGGAAA
	CTGGGACCTT	CCACGGTGAG	GGTGACAGGA	AAGGATTATT	TTACTCCTTT
2901	TTGCATCGCA	TTGTCTGAGT	AGGTGTCATT	CTATTCTGGG	GGGTGGGGTG
	AACGTAGCGT	AACAGACTCA	TCCACAGTAA	GATAAGACCC	CCCACCCAC
2951	GGGCAGGACA	GCAAGGGGGA	GGATTGGGAA	GACAATAGCA	GGCATGCTGG
	CCCGTCCTGT	CGTTCCCCCT	CCTAACCCCT	CTGTTATCGT	CCGTACGACC
3001	GGATGCGGTG	GGCTCTATGG	CCGATCGGCG	CGCCGTA CTG	AAATGTGTGG
	CCTACGCCAC	CCGAGATACC	GGTAGCCGC	GCGGCATGAC	TTTACACACC
3051	GCGTGGCTTA	AGGGTGGGAA	AGAATATATA	AGGTGGGGGT	CTTATGTAGT
	CGCACC GAAT	TCCCACCCCT	TCTTATATAT	TCCACCCCCA	GAATACATCA
3101	TTTGTATCTG	TTTTGCAGCA	GCCGCCGCCG	CCATGAGCAC	CAACTCGTTT
	AAACATAGAC	AAAACGTCGT	CGGCGGCGGC	GGTACTCGTG	GTTGAGCAAA
3151	GATGGAAGCA	TTGTGAGCTC	ATATTTGACA	ACGCGCATGC	CCCCATGGGC
	CTACCTTCGT	AACACTCGAG	TATAAACTGT	TGCGCGTACG	GGGGTACCCG
3201	CGGGGTGCGT	CAGAATGTGA	TGGGCTCCAG	CATTGATGGT	CGCCCCGTCC
	GCCCCACGCA	GTCTTACACT	ACCCGAGGTC	GTA ACTACCA	GCGGGGCAGG
3251	TGCCCCGAAA	CTCTACTACC	TTGACCTACG	AGACCGTGTC	TGGAACGCCG
	ACGGGCGTTT	GAGATGATGG	AACTGGATGC	TCTGGCACAG	ACCTTGCGGC
3301	TTGGGAGACTG	CAGCCTCCGC	CGCCGCTTCA	GCCGCTGCAG	CCACCGCCCG
	AACCTCTGAC	GTCGGAGGCG	GCGGCGAAGT	CGGCGACGTC	GGTGGCGGGC

FIG.9A-4

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3351 CGGGATTGTG ACTGACTTTG CTTTCCTGAG CCCGCTTGCA AACAGTGCAG
GCCCTAACAC TGA CTGAAAC GAAAGGACTC GGGCGAACGT TTGTCACGTC

3401 CTTCCCGTTC ATCCGCCCCG GATGACAAGT TGACGGCTCT TTTGGCACAA
GAAGGGCAAG TAGGCGGGCG C TACTGTTCA ACTGCCGAGA AAACCGTGTT

3451 TTGGATTCTT TGACCCGGGA ACTTAATGTC GTTTCTCAGC AGCTGTTGGA
AACCTAAGAA ACTGGGCCCT TGAATTACAG CAAAGAGTCG TCGACAACCT

3501 TCTGCGCCAG CAGGTTTCTG CCCTGAAGGC TTCCTCCCCT CCCAATGCGG
AGACGCGGTC GTCCAAAGAC GGGACTTCCG AAGGAGGGGA GGGTTACGCC

3551 TTTAAACAT AAATAAAAAA CCAGACTCTG TTTGGATTG GATCAAGCAA
AAATTTTGTA TTTATTTTTT GGTCTGAGAC AAACCTAAC CTAGTTCGTT

3601 GTGTCTTGCT GTCTTTATTT AGGGGTTTTG CGCGCGCGGT AGGCCCCGGGA
CACAGAACGA CAGAAATAAA TCCCCAAAAC GCGCGCGCCA TCCGGGCCCT

3651 CCAGCGGTCT CGGTCGTTGA GGGTCCTGTG TATTTTTTCC AGGACGTGGT
GGTCGCCAGA GCCAGCAACT CCCAGGACAC ATAAAAAAGG TCCTGCACCA

3701 AAAGGTGACT CTGGATGTTT AGATACATGG GCATAAGCCC GTCTCTGGGG
TTTCCACTGA GACCTACAAG TCTATGTACC CGTATTCGGG CAGAGACCCC

3751 TGGAGGTAGC ACCACTGCAG AGCTTCATGC TGCGGGGTGG TGTTGTAGAT
ACCTCCATCG TGGTGACGTC TCGAAGTACG ACGCCCCACC ACAACATCTA

3801 GATCCAGTCG TAGCAGGAGC GCTGGGCGTG GTGCCTAAAA ATGTCTTTCA
CTAGGTCAGC ATCGTCCTCG CGACCCGCAC CACGGATTTT TACAGAAAGT

3851 GTAGCAAGCT GATTGCCAGG GGCAGGCCCT TGGTGTAAGT GTTTACAAAG
CATCGTTCGA CTAACGGTCC CCGTCCGGGA ACCACATTCA CAAATGTTTC

3901 CGGTAAAGCT GGGATGGGTG CACACGTGGG GATATGAGAT GCATCTTGGA
GCCAATTCTA CCCTACCCAC GTATGCACCC CTATACTCTA CGTAGAACCT

3951 CTGTATTTTT AGGTTGGCTA TGTTCCAGC CATATCCCTC CGGGGATTCA
GACATAAAAA TCCAACCGAT ACAAGGGTCG GTATAGGGAG GCCCCTAAGT

4001 TGTTGTGCAG AACCACCAGC ACAGTGTATC CGGTGCACTT GGGAAATTTG
ACAACACGTC TTGGTGGTGC TGTACATAG GCCACGTGAA CCCTTTAAAC

4051 TCATGTAGCT TAGAAGGAAA TGCGTGGAAG AACTTGGAGA CGCCCTTGTC
AGTACATCGA ATCTTCCTTT ACGCACCTTC TTGAACCTCT GCGGGAACAC

4101 ACCTCCAAGA TTTTCCATGC ATTCGTCCAT AATGATGGCA ATGGGCCAC
TGGAGGTTCT AAAAGGTACG TAAGCAGGTA T TACTACCGT TACCCGGGTG

4151 GGGCGGCGGC CTGGGCGAAG ATATTTCTGG GATCACTAAC GTCATAGTTG
CCC GCCCGG GACCCGCTTC TATAAAGACC CTAGTGATTG CAGTATCAAC

FIG. 9A-5

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4201	TGTTCCAGGA	TGAGATCGTC	ATAGGCCATT	TTTACAAAGC	GCGGGCGGAG
	ACAAGGTCCT	ACTCTAGCAG	TATCCGGTAA	AAATGTTTCG	CGCCCGCCTC
4251	GGTGCCAGAC	TGCGGTATAA	TGGTTCCATC	CGGCCCAGGG	GCGTAGTTAC
	CCACGGTCTG	ACGCCATATT	ACCAAGGTAG	GCCGGGTCCC	CGCATCAATG
4301	CCTCACAGAT	TTGCATTTCC	CACGCTTTGA	GTTCAGATGG	GGGGATCATG
	GGAGTGTCTA	AACGTAAAGG	GTGCGAAACT	CAAGTCTACC	CCCCTAGTAC
4351	TCTACCTGCG	GGGCGATGAA	GAAAACGGTT	TCCGGGGTAG	GGGAGATCAG
	AGATGGACGC	CCCGCTACTT	CTTTTGCCAA	AGGCCCCATC	CCCTCTAGTC
4401	CTGGGAAGAA	AGCAGGTTCC	TGAGCAGCTG	CGACTTACCG	CAGCCGGTGG
	GACCCTTCTT	TCGTCCAAGG	ACTCGTCGAC	GCTGAATGGC	GTCGGCCACC
4451	GCCCCGTAAAT	CACACCTATT	ACCGGCTGCA	ACTGGTAGTT	AAGAGAGCTG
	CGGGCATTTA	GTGTGGATAA	TGGCCGACGT	TGACCATCAA	TTCTCTCGAC
4501	CAGCTGCCGT	CATCCCTGAG	CAGGGGGGCC	ACTTCGTTAA	GCATGTCCCT
	GTCGACGGCA	GTAGGGACTC	GTCCCCCGG	TGAAGCAATT	CGTACAGGGA
4551	GACTCGCATG	TTTTCCCTGA	CCAAATCCGC	CAGAAGGCGC	TCGCCGCCCA
	CTGAGCGTAC	AAAAGGGACT	GGTTTAGGCG	GTCTTCCGCG	AGCGGCGGGT
4601	GCGATAGCAG	TTCTTGCAAG	GAAGCAAAGT	TTTTCAACGG	TTTGAGACCG
	CGCTATCGTC	AAGAACGTTT	CTTCGTTTCA	AAAAGTTGCC	AAACTCTGGC
4651	TCCGCCGTAG	GCATGCTTTT	GAGCGTTTGA	CCAAGCAGTT	CCAGGCGGTC
	AGGCGGCATC	CGTACGAAAA	CTCGCAAACT	GGTTCGTCAA	GGTCCGCCAG
4701	CCACAGCTCG	GTCACCTGCT	CTACGGCATC	TCGATCCAGC	ATATCTCCTC
	GGTGTCTGAGC	CAGTGGACGA	GATGCCGTAG	AGCTAGGTCT	TATAGAGGAG
4751	GTTTCGCGGG	TTGGGGCGGC	TTTCGCTGTA	CGGCAGTAGT	CGGTGCTCGT
	CAAAGCGCCC	AACCCGCGCG	AAAGCGACAT	GCCGTCATCA	GCCACGAGCA
4801	CCAGACGGGC	CAGGGTCATG	TCTTTCCACG	GGCGCAGGGT	CCTCGTCAGC
	GGTCTGCCCC	GTCCCAGTAC	AGAAAGGTGC	CCGCGTCCCA	GGAGCAGTCG
4851	GTAGTCTGGG	TCACGGTGAA	GGGGTGCGCT	CCGGGCTGCG	CGCTGGCCAG
	CATCAGACCC	AGTGCCACTT	CCCCACGCGA	GGCCCGACGC	GCGACCGGTC
4901	GGTGCGCTTG	AGGCTGGTCC	TGCTGGTGCT	GAAGCGCTGC	CGGTCTTCGC
	CCACGCGAAC	TCCGACCAGG	ACGACCACGA	CTTCGCGACG	GCCAGAAGCG
4951	CCTGCGCGTC	GGCCAGGTAG	CATTTGACCA	TGGTGTCTATA	GTCCAGCCCC
	GGACGCGCAG	CCGGTCCATC	GTAAACTGGT	ACCACAGTAT	CAGGTCGGGG
5001	TCCGCGGCGT	GGCCCTTGCG	GCGCAGCTTG	CCCTTGAGAG	AGGCGCCGCA
	AGGCGCCGCA	CCGGGAACCG	CGCGTCGAAC	GGGAACCTCC	TCCGCGGCGT

FIG.9A-6

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5051	CGAGGGGCAG	TGCAGACTTT	TGAGGGCGTA	GAGCTTGGGC	GCGAGAAATA
	GCTCCCCGTC	ACGTCTGAAA	ACTCCCGCAT	CTCGAACCCG	CGCTCTTTAT
5101	CCGATTCCGG	GGAGTAGGCA	TCCGCGCCGC	AGGCCCCGCA	GACGGTCTCG
	GGCTAAGGCC	CCTCATCCGT	AGGCGCGGCG	TCCGGGGCGT	CTGCCAGAGC
5151	CATTCCACGA	GCCAGGTGAG	CTCTGGCCGT	TCGGGGTCAA	AAACCAGGTT
	GTAAGGTGCT	CGGTCCACTC	GAGACCGGCA	AGCCCCAGTT	TTTGGTCCAA
5201	TCCCCCATGC	TTTTTGATGC	GTTTCTTACC	TCTGGTTTCC	ATGAGCCGGT
	AGGGGGTACG	AAAAACTACG	CAAAGAATGG	AGACCAAAGG	TACTCGGCCA
5251	GTCCACGCTC	GGTGACGAAA	AGGCTGTCCG	TGTCCCCGTA	TACAGACTTG
	CAGGTGCGAG	CCACTGCTTT	TCCGACAGGC	ACAGGGGCAT	ATGTCTGAAC
5301	AGAGGCCTGT	CCTCGAGCGG	TGTTCCGCGG	TCCTCCTCGT	ATAGAAACTC
	TCTCCGGACA	GGAGCTCGCC	ACAAGGCGCC	AGGAGGAGCA	TATCTTTGAG
5351	GGACCACTCT	GAGACAAAGG	CTCGCGTCCA	GGCCAGCACG	AAGGAGGCTA
	CCTGGTGAGA	CTCTGTTTCC	GAGCGCAGGT	CCGGTCGTGC	TTCTCCGAT
5401	AGTGGGAGGG	GTAGCGGTGC	TTGTCCACTA	GGGGGTCCAC	TCGCTCCAGG
	TCACCCTCCC	CATCGCCAGC	AACAGGTGAT	CCCCCAGGTG	AGCGAGGTCC
5451	GTGTGAAGAC	ACATGTCGCC	CTCTTCGGCA	TCAAGGAAGG	TGATTGGTTT
	CACACTTCTG	TGTACAGCGG	GAGAAGCCGT	AGTTCCTTCC	ACTAACCAAA
5501	GTAGGTGTAG	GCCACGTGAC	CGGGTGTTC	TGAAGGGGGG	CTATAAAAGG
	CATCCACATC	CGGTGCACTG	GCCCACAAGG	ACTTCCCCC	GATATTTTCC
5551	GGGTGGGGGC	GCGTTCGTCC	TCACTCTCTT	CCGCATCGCT	GTCTGCGAGG
	CCCACCCCCG	CGCAAGCAGG	AGTGAGAGAA	GGCGTAGCGA	CAGACGCTCC
5601	GCCAGCTGTT	GGGGTGAGTA	CTCCCTCTGA	AAAGCGGGCA	TGACTTCTGC
	CGGTGACAAA	CCCCACTCAT	GAGGGAGACT	TTTCGCCCGT	ACTGAAGACG
5651	GCTAAGATTG	TCAGTTTCCA	AAAACGAGGA	GGATTTGATA	TTCACCTGGC
	CGATTCTAAC	AGTCAAAGGT	TTTTGCTCCT	CCTAAACTAT	AAGTGGACCG
5701	CCGCGGTGAT	GCCTTTGAGG	GTGGCCGCAT	CCATCTGGTC	AGAAAAGACA
	GGCGCCACTA	CGGAAACTCC	CACCGGCGTA	GGTAGACCAG	TCTTTTCTGT
5751	ATCTTTTTGT	TGTCAAGCTT	GGTGGCAAAC	GACCCGTAGA	GGGCGTTGGA
	TAGAAAAACA	ACAGTTCGAA	CCACCGTTTG	CTGGGCATCT	CCCGCAACCT
5801	CAGCAACTTG	GCGATGGAGC	GCAGGGTTTG	GTTTTTGTCG	CGATCGGCGC
	GTCGTTGAAC	CGCTACCTCG	CGTCCCAAAC	CAAAAACAGC	GCTAGCCGCG
5851	GCTCCTTGGC	CGCGATGTTT	AGCTGCACGT	ATTGCGCGCG	AACGCACCGC
	CGAGGAACCG	GCGCTACAAA	TCGACGTGCA	TAAGCGCGCG	TTGCGTGGCG

FIG.9A-7

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5901	CATTCGGGAA	AGACGGTGGT	GCGCTCGTCG	GGCACCAGGT	GCACGCGCCA
	GTAAGCCCTT	TCTGCCACCA	CGCGAGCAGC	CCGTGGTCCA	CGTGCGCGGT
5951	ACCGCGGTTG	TGCAGGGTGA	CAAGGTCAAC	GCTGGTGGCT	ACCTCTCCGC
	TGGCGCCAAC	ACGTCCCACT	GTTCCAGTTG	CGACCACCGA	TGGAGAGGCG
6001	GTAGGCGCTC	GTTGGTCCAG	CAGAGGCGGC	CGCCCTTGCG	CGAGCAGAAT
	CATCCGCGAG	CAACCAGGTC	GTCTCCGCCG	GCGGGAACGC	GCTCGTCTTA
6051	GGCGGTAGGG	GGTCTAGCTG	CGTCTCGTCC	GGGGGGTCTG	CGTCCACGGT
	CCGCCATCCC	CCAGATCGAC	GCAGAGCAGG	CCCCCAGAC	GCAGGTGCCA
6101	AAAGACCCCG	GGCAGCAGGC	GCGCGTCGAA	GTAGTCTATC	TTGCATCCTT
	TTTCTGGGGC	CCGTCGTCCG	CGCGCAGCTT	CATCAGATAG	AACGTAGGAA
6151	GCAAGTCTAG	CGCCTGCTGC	CATGCGCGGG	CGGCAAGCGC	GCGCTCGTAT
	CGTTCAGATC	GCGGACGACG	GTACGCGCCC	GCCGTTGCGC	CGCGAGCATA
6201	GGGTTGAGTG	GGGGACCCCA	TGGCATGGGG	TGGGTGAGCG	CGGAGGCGTA
	CCCAACTCAC	CCCCTGGGGT	ACCGTACCCC	ACCCACTCGC	GCCTCCGCAT
6251	CATGCCGCAA	ATGTCGTAAA	CGTAGAGGGG	CTCTCTGAGT	ATTCCAAGAT
	GTACGGCGTT	TACAGCATTT	GCATCTCCCC	GAGAGACTCA	TAAGGTTCTA
6301	ATGTAGGGTA	GCATCTTCCA	CCGCGGATGC	TGGCGCGCAC	GTAATCGTAT
	TACATCCCAT	CGTAGAAGGT	GGCGCCTACG	ACCGCGCGTG	CATTAGCATA
6351	AGTTCGTGCG	AGGGAGCGAG	GAGGTGCGGA	CCGAGGTTGC	TACGGGCGGG
	TCAAGCACGC	TCCCTCGCTC	CTCCAGCCCT	GGCTCCAACG	ATGCCCGCCC
6401	CTGCTCTGCT	CGGAAGACTA	TCTGCCTGAA	GATGGCATGT	GAGTTGGATG
	GACGAGACGA	GCCTTCTGAT	AGACGGACTT	CTACCGTACA	CTCAACCTAC
6451	ATATGGTTGG	ACGCTGGAAG	ACGTTGAAGC	TGGCGTCTGT	GAGACCTACC
	TATACCAACC	TGCGACCTTC	TGCAACTTCG	ACCGCAGACA	CTCTGGATGG
6501	GCGTCACGCA	CGAAGGAGGC	GTAGGAGTCG	CGCAGCTTGT	TGACCAGCTC
	CGCAGTGCGT	GCTTCCTCCG	CATCCTCAGC	GCGTCGAACA	ACTGGTCGAG
6551	GGCGGTGACC	TGCACGTCTA	GGGCGCAGTA	GTCCAGGGTT	TCCTTGATGA
	CCGCCACTGG	ACGTGCAGAT	CCGCGCTCAT	CAGGTCCCAA	AGGAACTACT
6601	TGTCATACTT	ATCCTGTCCC	TTTTTTTTTCC	ACAGCTCGCG	GTTGAGGACA
	ACAGTATGAA	TAGGACAGGG	AAAAAAAAGG	TGTCGAGCGC	CAACTCCTGT
6651	AACTCTTCGC	GGTCTTTCCA	GTA CTCTTGG	ATCGGAAACC	CGTCGGCCTC
	TTGAGAAGCG	CCAGAAAGGT	CATGAGAACC	TAGCCTTTGG	GCAGCCGGAG
6701	CGAACGGTAA	GAGCCTAGCA	TGTAGAACTG	GTTGACGGCC	TGGTAGGCGC
	GCTTGCCATT	CTCGGATCGT	ACATCTTGAC	CAACTGCCGG	ACCATCCGCG

FIG.9A-8

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6751	AGCATCCCTT TCGTAGGGAA	TTCTACGGGT AAGATGCCCA	AGCGCGTATG TCGCGCATAC	CCTGCGCGGC GGACGCGCCG	CTTCCGGAGC GAAGGCCCTCG
6801	GAGGTGTGGG CTCCACACCC	TGAGCGCAAA ACTCGCGTTT	GGTGTCCCTG CCACAGGGAC	ACCATGACTT TGGTACTGAA	TGAGGTACTG ACTCCATGAC
6851	GTATTTGAAG CATAAACTTC	TCAGTGTCTG AGTCACAGCA	CGCATCCGCC GCGTAGGCGG	CTGCTCCCAG GACGAGGGTC	AGCAAAAAGT TCGTTTTTCA
6901	CCGTGCGCTT GGCAGCGGAA	TTTGGAACGC AAACCTTGCG	GGATTTGGCA CCTAAACCGT	GGGCGAAGGT CCCGCTTCCA	GACATCGTTG CTGTAGCAAC
6951	AAGAGTATCT TTCTCATAGA	TTCCCGCGCG AAGGGCGCGC	AGGCATAAAG TCCGTATTTT	TTGCGTGTGA AACGCACACT	TGCGGAAGGG ACGCCTTCCC
7001	TCCCGGCACC AGGGCCGTGG	TCGGAACGGT AGCCTTGCCA	TGTTAATTAC ACAATTAATG	CTGGGCGGCG GACCCGCCGC	AGCACGATCT TCGTGCTAGA
7051	CGTCAAAGCC GCAGTTTCGG	GTTGATGTTG CAACTACAAC	TGGCCCACAA ACCGGGTGTT	TGTAAAGTTC ACATTTCAAG	CAAGAAGCGC GTTCTTCGCG
7101	GGGATGCCCT CCCTACGGGA	TGATGGAAGG ACTACCTTCC	CAATTTTTTA GTAAAAAAT	AGTTCCTCGT TCAAGGAGCA	AGGTGAGCTC TCCACTCGAG
7151	TTCAGGGGAG AAGTCCCCTC	CTGAGCCCGT GACTCGGGCA	GCTCTGAAAG CGAGACTTTC	GGCCCAGTCT CCGGGTCAGA	GCAAGATGAG CGTTCTACTC
7201	GGTTGGAAGC CCAACCTTCG	GACGAATGAG CTGCTTACTC	CTCCACAGGT GAGGTGTCCA	CACGGGCCAT GTGCCCGGTA	TAGCATTTGC ATCGTAAACG
7251	AGGTGGTCGC TCCACCAGCG	GAAAGGTCCT CTTTCCAGGA	AAACTGGCGA TTTGACCGCT	CCTATGGCCA GGATACCGGT	TTTTTTCTGG AAAAAAGACC
7301	GGTGATGCAG CCACTACGTC	TAGAAGGTAA ATCTTCCATT	GCGGGTCTTG CGCCCAGAAC	TCCCAGCGG AAGGGTCGCC	TCCCATCCAA AGGGTAGGTT
7351	GGTTCGCGGC CCAAGCGCCG	TAGGTCTCGC ATCCAGAGCG	GCGGCAGTCA CGCCGTCAGT	CTAGAGGCTC GATCTCCGAG	ATCTCCGCCG TAGAGGCGGC
7401	AACTTCATGA TTGAAGTACT	CCAGCATGAA GGTCGTACTT	GGGCACGAGC CCCGTGCTCG	TGCTTCCCAA ACGAAGGGTT	AGGCCCCCAT TCCGGGGGTA
7451	CCAAGTATAG GGTTCATATC	GTCTCTACAT CAGAGATGTA	CGTAGGTGAC GCATCCACTG	AAAGAGACGC TTTCTCTGCG	TCGGTGCGAG AGCCACGCTC
7501	GATGCGAGCC CTACGCTCGG	GATCGGGAAG CTAGCCCTTC	AACTGGATCT TTGACCTAGA	CCCGCCACCA GGGCGGTGGT	ATTGGAGGAG TAACCTCCTC
7551	TGGCTATTGA ACCGATAACT	TGTGGTGAAA ACACCACTTT	GTAGAAGTCC CATCTTCAGG	CTGCGACGGG GACGCTGCCC	CCGAACACTC GGCTTGTGAG

FIG.9A-9

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7601	GTGCTGGCTT	TTGTAAAAAC	GTGCGCAGTA	CTGGCAGCGG	TGCACGGGCT
	CACGACCGAA	AACATTTTTG	CACGCGTCAT	GACCGTCGCC	ACGTGCCCCA
7651	GTACATCCTG	CACGAGGTTG	ACCTGACGAC	CGCGCACAAAG	GAAGCAGAGT
	CATGTAGGAC	GTGCTCCAAC	TGGACTGCTG	GCGCGTGTTT	CTTCGTCTCA
7701	GGGAATTTGA	GCCCCTCGCC	TGGCGGGTTT	GGCTGGTGGT	CTTCTACTTC
	CCCTTAAACT	CGGGGAGCGG	ACGCCCAA	CCGACCACCA	GAAGATGAAG
7751	GGCTGCTTGT	CCTTGACCGT	CTGGCTGCTC	GAGGGGAGTT	ACGGTGGATC
	CCGACGAACA	GGAAGTGGCA	GACCGACGAG	CTCCCTCAA	TGCCACCTAG
7801	GGACCACCAC	GCCGCGCGAG	CCCAAAGTCC	AGATGTCCGC	GCGCGGCGGT
	CCTGGTGGTG	CGGCGCGCTC	GGGTTTCAGG	TCTACAGGCG	CGCGCCGCCA
7851	CGGAGCTTGA	TGACAACATC	GCGCAGATGG	GAGCTGTCCA	TGGTCTGGAG
	GCCTCGAACT	ACTGTTGTAG	CGCGTCTACC	CTCGACAGGT	ACCAGACCTC
7901	CTCCCGCGGC	GTCAGGTCAG	GCGGGAGCTC	CTGCAGGTTT	ACCTCGCATA
	GAGGGCGCCG	CAGTCCAGTC	CGCCCTCGAG	GACGTCCAAA	TGGAGCGTAT
7951	GACGGGTCAG	GGCGCGGGCT	AGATCCAGGT	GATACCTAAT	TTCCAGGGGC
	CTGCCCAGTC	CCGCGCCCCA	TCTAGGTCCA	CTATGGATTA	AAGGTCCCCG
8001	TGGTTGGTGG	CGGCGTCGAT	GGCTTGCAAG	AGGCCGCATC	CCGCGGGCGC
	ACCAACCACC	GCCGCAGCTA	CCGAACGTTT	TCCGGCGTAG	GGGCGCCGCG
8051	GACTACGGTA	CCGCGCGGCG	GGCGGTGGGC	CGCGGGGGTG	TCCTTGATG
	CTGATGCCAT	GGCGCGCCGC	CCGCCACCCG	GCGCCCCAC	AGGAACCTAC
8101	ATGCATCTAA	AAGCGGTGAC	GCGGGCGAGC	CCCCGGAGGT	AGGGGGGGCT
	TACGTAGATT	TTCGCCACTG	CGCCGCTCG	GGGGCCTCCA	TCCCCCCCA
8151	CCGGACCCGC	CGGGAGAGGG	GGCAGGGGCA	CGTCGGCGCC	GCGCGCGGGC
	GGCCTGGGCG	GCCCTCTCCC	CCGTCCCCGT	GCAGCCGCGG	CGCGCGCCCC
8201	AGGAGCTGGT	GCTGCGCGCG	TAGGTTGCTG	GCGAACGCGA	CGACGCGGCG
	TCCTCGACCA	CGACGCGCGC	ATCCAACGAC	CGCTTGCGCT	GCTGCGCCGC
8251	GTTGATCTCC	TGAATCTGGC	GCCTCTGCGT	GAAGACGACG	GGCCCCGTGA
	CAACTAGAGG	ACTTAGACCG	CGGAGACGCA	CTTCTGCTGC	CCGGGCCACT
8301	GCTTGAACCT	GAAAGAGAGT	TCGACAGAAT	CAATTTCCGT	GTCGTTGACG
	CGAACTTGGA	CTTTCTCTCA	AGCTGTCTTA	GTAAAGCCA	CAGCAACTGC
8351	GCGGCCTGGC	GCAAAATCTC	CTGCACGTCT	CCTGAGTTGT	CTTGATAGGC
	CGCCGGACCG	CGTTTTAGAG	GACGTGCAGA	GGAAGTCAACA	GAACTATCCG
8401	GATCTCGGCC	ATGAACTGCT	CGATCTCTTC	CTCCTGGAGA	TCTCCGCGTC
	CTAGAGCCGG	TACTTGACGA	GCTAGAGAAG	GAGGACCTCT	AGAGGCGCAG

FIG.9A-10

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8451	CGGCTCGCTC	CACGGTGGCG	GCGAGGTCGT	TGGAAATGCG	GGCCATGAGC
	GCCGAGCGAG	GTGCCACCGC	CGCTCCAGCA	ACCTTTACGC	CCGGTACTCG
8501	TGCGAGAAGG	CGTTGAGGCC	TCCCTCGTTC	CAGACGCGGC	TGTAGACCAC
	ACGCTCTTCC	GCAACTCCGG	AGGGAGCAAG	GTCTGCGCCG	ACATCTGGTG
8551	GCCCCCTTCG	GCATCGCGGG	CGCGCATGAC	CACCTGCGCG	AGATTGAGCT
	CGGGGGAAGC	CGTAGCGCCC	GCGCGTACTG	GTGGACGCGC	TCTAACTCGA
8601	CCACGTGCCG	GGCGAAGACG	GCGTAGTTTC	GCAGGCGCTG	AAAGAGGTAG
	GGTGCACGGC	CCGCTTCTGC	CGCATCAAAG	CGTCCGCGAC	TTTCTCCATC
8651	TTGAGGGTGG	TGGCGGTGTG	TTCTGCCACG	AAGAAGTACA	TAACCCAGCG
	AACTCCCACC	ACCGCCACAC	AAGACGGTGC	TTCTTCATGT	ATTGGGTGCG
8701	TCGCAACGTG	GATTCGTTGA	TATCCCCCAA	GGCCTCAAGG	CGCTCCATGG
	AGCGTTGCAC	CTAAGCAACT	ATAGGGGGTT	CCGGAGTTCC	GCGAGGTACC
8751	CCTCGTAGAA	GTCCACGGCG	AAGTTGAAAA	ACTGGGAGTT	GCGCGCCGAC
	GGAGCATCTT	CAGGTGCCGC	TTCAACTTTT	TGACCCTCAA	CGCGCGGCTG
8801	ACGGTTAACT	CCTCCTCCAG	AAGACGGATG	AGCTCGGCGA	CAGTGTCGCG
	TGCCAATTGA	GGAGGAGGTC	TTCTGCCTAC	TCGAGCCGCT	GTCACAGCGC
8851	CACCTCGCGC	TCAAAGGCTA	CAGGGGCCTC	TTCTTCTTCT	TCAATCTCCT
	GTGGAGCGCG	AGTTTCCGAT	GTCCCCGGAG	AAGAAGAAGA	AGTTAGAGGA
8901	CTTCCATAAG	GGCCTCCCCT	TCTTCTTCTT	CTGGCGGCGG	TGGGGGAGGG
	GAAGGTATTG	CCGGAGGGGA	AGAAGAAGAA	GACCGCCGCC	ACCCCCTCCC
8951	GGGACACGGC	GGCGACGACG	GCGCACCGGG	AGGCGGTCTG	CAAAGCGCTC
	CCCTGTGCCG	CCGCTGCTGC	GCGGTGGCCC	TCCGCCAGCT	GTTTCGCGAG
9001	GATCATCTCC	CCGCGGCGAC	GGCGCATGGT	CTCGGTGACG	GCGCGGCCGT
	CTAGTAGAGG	GGCGCCGCTG	CCGCGTACCA	GAGCCACTGC	CGCGCCGGCA
9051	TCTCGCGGGG	GCGCAGTTGG	AAGACGCCGC	CCGTCATGTC	CCGGTTATGG
	AGAGCGCCCC	CGCGTCAACC	TTCTGCGGCG	GGCAGTACAG	GGCCAATACC
9101	GTTGGCGGGG	GGCTGCCATG	CGGCAGGGAT	ACGGCGCTAA	CGATGCATCT
	CAACCGCCCC	CCGACGGTAC	GCCGTCCCTA	TGCCGCGATT	GCTACGTAGA
9151	CAACAATTGT	TGTGTAGGTA	CTCCGCCGCC	GAGGGACCTG	AGCGAGTCCG
	GTTGTTAACA	ACACATCCAT	GAGGCGGCGG	CTCCCTGGAC	TCGCTCAGGC
9201	CATCGACCGG	ATCGGAAAAC	CTCTCGAGAA	AGGCGTCTAA	CCAGTCACAG
	GTAGCTGGCC	TAGCCTTTTG	GAGAGCTCTT	TCCGCAGATT	GGTCAGTGTC
9251	TCGCAAGGTA	GGCTGAGCAC	CGTGGCGGGC	GGCAGCGGGC	GGCGGTGCGG
	AGCGTTCCAT	CCGACTCGTG	GCACCGCCCG	CCGTCGCCCC	CCGCCAGCCC

FIG. 9A-11

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9301 GTTGTCTTCTG GCGGAGGTGC TGCTGATGAT GTAATTAAAG TAGGCGGTCT
CAACAAAGAC CGCCTCCACG ACGACTACTA CATTAAATTC ATCCGCCAGA

9351 TGAGACGGCG GATGGTCGAC AGAAGCACCA TGTCCTTGGG TCCGGCCTGC
ACTCTGCCGC CTACCAGCTG TCTTCGTGGT ACAGGAACCC AGGCCGGACG

9401 TGAATGCGCA GGC GGTCGGC CATGCCCCAG GCTTCGTTTT GACATCGGCG
ACTTACGCGT CCGCCAGCCG GTACGGGGTC CGAAGCAAAA CTGTAGCCCG

9451 CAGGTCTTTG TAGTAGTCTT GCATGAGCCT TTCTACCGGC ACTTCTTCTT
GTCCAGAAAC ATCATCAGAA CGTACTCGGA AAGATGGCCG TGAAGAAGAA

9501 CTCCTTCCTC TTGTCCTGCA TCTCTTGCA CTATCGCTGC GGC GGCGGCG
GAGGAAGGAG AACAGGACGT AGAGAACGTA GATAGCGACG CCGCCGCCCG

9551 GAGTTTGGCC GTAGGTGGCG CCCTCTTCCT CCCATGCGTG TGACCCCGAA
CTCAAACCGG CATCCACCGC GGGAGAAGGA GGGTACGCAC ACTGGGGCTT

9601 GCCCCTCATC GGCTGAAGCA GGGCTAGGTC GGCGACAACG CGCTCGGCTA
CGGGGAGTAG CCGACTTCGT CCCGATCCAG CCGCTGTTGC GCGAGCCGAT

9651 ATATGGCCTG CTGCACCTGC GTGAGGGTAG ACTGGAAGTC ATCCATGTCC
TATACCGGAC GACGTGGACG CACTCCCATC TGACCTTCAG TAGGTACAGG

9701 ACAAAGCGGT GGTATGCGCC CGTGTTGATG GTGTAAGTGC AGTTGGCCAT
TGTTTCGCCA CCATACGCGG GCACAACACTAC CACATTCACG TCAACCGGTA

9751 AACGGACCAG TTAACGGTCT GGTGACCCGG CTGCGAGAGC TCGGTGTACC
TTGCTGGTC AATTGCCAGA CCACTGGGCC GACGCTCTCG AGCCACATGG

9801 TGAGACGCGA GTAAGCCCTC GAGTCAAATA CGTAGTCGTT GCAAGTCCGC
ACTCTGCGCT CATTGCGGAG CTCAGTTTAT GCATCAGCAA CGTTCAGGCG

9851 ACCAGGTACT GGTATCCAC CAAAAAGTGC GGCGGCGGCT GGCGGTAGAG
TGGTCCATGA CCATAGGGTG GTTTTTCACG CCGCCGCCGA CCGCCATCTC

9901 GGGCCAGCGT AGGGTGGCCG GGGCTCCGGG GGCGAGATCT TCCAACATAA
CCCGGTCGCA TCCCACCGGC CCCGAGGCC CCGCTCTAGA AGGTTGTATT

9951 GGCGATGATA TCCGTAGATG TACCTGGACA TCCAGGTGAT GCCGGCGGCG
CCGCTACTAT AGGCATCTAC ATGGACCTGT AGGTCCACTA CGGCCGCCGC

10001 GTGGTGGAGG CGCGCGGAAA GTCGCGGACG CGGTTCCAGA TGTTGCGCAG
CACCACCTCC GCGCGCCTTT CAGCGCCTGC GCCAAGGTCT ACAACGCGTC

10051 CGGCAAAAAG TGCTCCATGG TCGGGACGCT CTGGCCGGTC AGGCGCGCGC
GCCGTTTTTC ACGAGGTACC AGCCCTGCGA GACCGGCCAG TCCGCGCGCG

10101 AATCGTTGAC GCTCTAGACC GTGCAAAAGG AGAGCCTGTA AGCGGGCACT
TTAGCAACTG CGAGATCTGG CACGTTTTCC TCTCGGACAT TCGCCCGTGA

FIG.9A-12

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10151	CTTCCGTGGT	CTGGTGGATA	AATTCGCAAG	GGTATCATGG	CGGACGACCG
	GAAGGCACCA	GACCACCTAT	TTAAGCGTTC	CCATAGTACC	GCCTGCTGGC
10201	GGGTTCGAGC	CCCGTATCCG	GCCGTCCGCC	GTGATCCATG	CGGTTACCGC
	CCCAAGCTCG	GGGCATAGGC	CGGCAGGCGG	CACTAGGTAC	GCCAATGGCG
10251	CCGCGTGTCT	AACCCAGGTG	TGCGACGTCA	GACAACGGGG	GAGTGCTCCT
	GGCGCACAGC	TTGGGTCCAC	ACGCTGCAGT	CTGTTGCCCC	CTCACGAGGA
10301	TTTGGCTTCC	TTCCAGGCGC	GGCGGCTGCT	GCGCTAGCTT	TTTTGGCCAC
	AAACCGAAGG	AAGGTCCGCG	CCGCCGACGA	CAGCATCGAA	AAAACCGGTG
10351	TGGCCGCGCG	CAGCGTAAGC	GGTTAGGCTG	GAAAGCGAAA	GCATTAAGTG
	ACCGGCGCGC	GTCGCATTCT	CCAATCCGAC	CTTTCGCTTT	CGTAATTCAC
10401	GCTCGCTCCC	TGTAGCCGGA	GGGTTATTTT	CCAAGGGTTG	AGTCGCGGGA
	CGAGCGAGGG	ACATCGGCCT	CCCAATAAAA	GGTTCCCAAC	TCAGCGCCCT
10451	CCCCCGGTTT	GAGTCTCGGA	CCGGCCGGAC	TGCGGCGAAC	GGGGGTTTGC
	GGGGGCCAAG	CTCAGAGCCT	GGCCGGCCTG	ACGCCGCTTG	CCCCCAAACG
10501	CTCCCCGTCA	TGCAAGACCC	CGCTTGCAAA	TTCCTCCGGA	AACAGGGACG
	GAGGGGACGT	ACGTTCTGGG	GCGAACGTTT	AAGGAGGCCT	TTGTCCCTGC
10551	AGCCCCTTTT	TTGCTTTTTCC	CAGATGCATC	CGGTGCTGCG	GCAGATGCGC
	TCGGGGAAAA	AACGAAAAGG	GTCTACGTAG	GCCACGACGC	CGTCTACGCG
10601	CCCCCTCCTC	AGCAGCGGCA	AGAGCAAGAG	CAGCGGCAGA	CATGCAGGGC
	GGGGGAGGAG	TCGTCGCCGT	TCTCGTTCTC	GTCGCCGTCT	GTACGTCCCC
10651	ACCCTCCCCCT	CCTCCTACCG	CGTCAGGAGG	GGCGACATCC	GCGGTTGACG
	TGGGAGGGGA	GGAGGATGGC	GCAGTCCTCC	CCGCTGTAGG	CGCCAACTGC
10701	CGGCAGCAGA	TGGTGATTAC	GAACCCCGCG	GGCGCCGGGC	CCGGCACTAC
	GCCGTCGTCT	ACCACTAATG	CTTGGGGGCG	CCGCGGCCCG	GGCCGTGATG
10751	CTGGACTTGG	AGGAGGGCGA	GGGCCTGGCG	CGGCTAGGAG	CGCCCTCTCC
	GACCTGAACC	TCCTCCCGCT	CCCGGACCGC	GCCGATCCTC	GCGGGAGAGG
10801	TGAGCGGCAC	CCAAGGGTGC	AGCTGAAGCG	TGATACGCGT	GAGGCGTACG
	ACTCGCCGTG	GGTTCCACG	TCGACTTCGC	ACTATGCGCA	CTCCGCATGC
10851	TGCCGCGGCA	GAACCTGTTT	CGCGACCGCG	AGGGAGAGGA	GCCCGAGGAG
	ACGGCGCCGT	CTTGGACAAA	GCGCTGGCGC	TCCCTCTCCT	CGGGCTCCTC
10901	ATGCGGGATC	GAAAGTTCCA	CGCAGGGCGC	GAGCTGCGGC	ATGGCCTGAA
	TACGCCCTAG	CTTTCAAGGT	GCGTCCCGCG	CTCGACGCCG	TACCGGACTT
10951	TCGCGAGCGG	TTGCTGCGCG	AGGAGGACTT	TGAGCCCGAC	GCGCGAACC
	AGCGCTCGCC	AACGACGCGC	TCCTCCTGAA	ACTCGGGCTG	CGCGCTTGGC

FIG.9A-13

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11001	GGATTAGTCC	CGCGCGCGCA	CACGTGGCGG	CCGCCGACCT	GGTAACCGCA
	CCTAATCAGG	GCGCGCGCGT	GTGCACCGCC	GGCGGCTGGA	CCATTGGCGT
11051	TACGAGCAGA	CGGTGAACCA	GGAGATTAAC	TTTCAAAAAA	GCTTTAACAA
	ATGCTCGTCT	GCCACTTGGT	CCTCTAATTG	AAAGTTTTTT	CGAAATTGTT
11101	CCACGTGCGT	ACGCTTGTGG	CGCGCGAGGA	GGTGGCTATA	GGA CTGATGC
	GGTGCACGCA	TGCGAACACC	GCGCGCTCCT	CCACCGATAT	CCTGACTACG
11151	ATCTGTGGGA	CTTTGTAAGC	GCGCTGGAGC	AAAACCCAAA	TAGCAAGCCG
	TAGACACCCT	GAAACATTCG	GCGGACCTCG	TTTTGGGTTT	ATCGTTGCGG
11201	CTCATGGCGC	AGCTGTTCCCT	TATAGTGCAG	CACAGCAGGG	ACAACGAGGC
	GAGTACCGCG	TCGACAAGGA	ATATCACGTC	GTGTCGTCCC	TGTTGCTCCG
11251	ATTCAGGGAT	GCGCTGCTAA	ACATAGTAGA	GCCCGAGGGC	CGCTGGCTGC
	TAAGTCCCTA	CGCGACGATT	TGTATCATCT	CGGGCTCCCG	GCGACCGACG
11301	TCGATTTGAT	AAACATCCTG	CAGAGCATAG	TGGTGCAGGA	GCGCAGCTTG
	AGCTAAACTA	TTTGTAGGAC	GTCTCGTATC	ACCACGTCCT	CGCGTCGAAC
11351	AGCCTGGCTG	ACAAGGTGGC	CGCCATCAAC	TATTCCATGC	TTAGCCTGGG
	TCGGACCGAC	TGTTCCACCG	GCGGTAGTTG	ATAAGGTACG	AATCGGACCC
11401	CAAGTTTTAC	GCCCCGAAGA	TATACCATAC	CCCTTACGTT	CCCATAGACA
	GTTCAAAATG	CGGGCGTTCT	ATATGGTATG	GGGAATGCAA	GGGTATCTGT
11451	AGGAGGTAAA	GATCGAGGGG	TTCTACATGC	GCATGGCGCT	GAAGGTGCTT
	TCCTCCATTT	CTAGCTCCCC	AAGATGTACG	CGTACCGCGA	CTTCCACGAA
11501	ACCTTGAGCG	ACGACCTGGG	CGTTTATCGC	AACGAGCGCA	TCCACAAGGC
	TGGAAC TCGC	TGCTGGACCC	GCAAATAGCG	TTGCTCGCGT	AGGTGTTCCG
11551	CGTGAGCGTG	AGCCGGCGGC	GCGAGCTCAG	CGACCGCGAG	CTGATGCACA
	GCACTCGCAC	TCGGCCGCCG	CGCTCGAGTC	GCTGGCGCTC	GACTACGTGT
11601	GCCTGCAAAG	GGCCCTGGCT	GGCACGGGCA	GCGGCGATAG	AGAGGCCGAG
	CGGACGTTTC	CCGGGACCGA	CCGTGCCCGT	CGCCGCTATC	TCTCCGGCTC
11651	TCCTACTTTG	ACGCGGGCGC	TGACCTGCGC	TGGGCCCCAA	GCCGACGCGC
	AGGATGAAAC	TGCGCCCGCG	ACTGGACGCG	ACCCGGGGTT	CGGCTGCGCG
11701	CCTGGAGGCA	GCTGGGGCCG	GACCTGGGCT	GGCGGTGGCA	CCCGCGCGCG
	GGACCTCCGT	CGACCCCGGC	CTGGACCCGA	CCGCCACCGT	GGGCGCGCGC
11751	CTGGCAACGT	CGGCGGCGTG	GAGGAATATG	ACGAGGACGA	TGAGTACGAG
	GACCGTTGCA	GCCGCCGCAC	CTCCTTATAC	TGCTCCTGCT	ACTCATGCTC
11801	CCAGAGGACG	GCGAGTACTA	AGCGGTGATG	TTTCTGATCA	GATGATGCAA
	GGTCTCCTGC	CGCTCATGAT	TCGCCACTAC	AAAGACTAGT	CTACTACGTT

FIG.9A-14

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11851	GACGCAACGG CTGCGTTGCC	ACCCGGCGGT TGGGCCGCCA	GCGGGCGGCG CGCCCGCCGC	CTGCAGAGCC GACGTCTCGG	AGCCGTCCGG TCGGCAGGCC
11901	CCTTAACCTC GGAATTGAGG	ACGGACGACT TGCCTGCTGA	GGCGCCAGGT CCGCGGTCCA	CATGGACCGC GTACCTGGCG	ATCATGTCGC TAGTACAGCG
11951	TGACTGCGCG ACTGACGCGC	CAATCCTGAC GTTAGGACTG	GCGTTCCGGC CGCAAGGCCG	AGCAGCCGCA TCGTGCGCGT	GGCCAACCGG CCGGTTGGCC
12001	CTCTCCGCAA GAGAGGCGTT	TTCTGGAAGC AAGACCTTCG	GGTGGTCCCG CCACCAGGGC	GCGCGCGCAA CGCGCGCGTT	ACCCACGCA TGGGGTGCGT
12051	CGAGAAGGTG GCTCTTCCAC	CTGGCGATCG GACCGCTAGC	TAAACGCGCT ATTTGCGCGA	GGCCGAAAAC CCGGCTTTTG	AGGGCCATCC TCCCGGTAGG
12101	GGCCCGACGA CCGGGCTGCT	GGCCGGCCTG CCGGCCGGAC	GTCTACGACG CAGATGCTGC	CGCTGCTTCA GCGACGAAGT	GCGCGTGGCT CGCGCACCGA
12151	CGTTACAACA GCAATGTTGT	GCGGCAACGT CGCCGTTGCA	GCAGACCAAC CGTCTGGTTG	CTGGACCGGC GACCTGGCCG	TGGTGGGGGA ACCACCCCT
12201	TGTGCGCGAG ACACGCGCTC	GCCGTGGCGC CGGCACCGCG	AGCGTGAGCG TCGCACTCGC	CGCGCAGCAG GCGCGTCGTC	CAGGGCAACC GTCCCGTTGG
12251	TGGGCTCCAT ACCCGAGGTA	GGTTGCACTA CCAACGTGAT	AACGCCTTCC TTGCGGAAGG	TGAGTACACA ACTCATGTGT	GCCCCCCAAC CGGGCGGTTG
12301	GTGCCGCGGG CACGGCGCCC	GACAGGAGGA CTGTCTCCT	CTACACCAAC GATGTGGTTG	TTTGTGAGCG AAACACTCGC	CACTGCGGCT GTGACGCCGA
12351	AATGGTGACT TTACCACTGA	GAGACACCGC CTCTGTGGCG	AAAGTGAGGT TTTCACTCCA	GTACCAGTCT CATGGTCAGA	GGGCCAGACT CCCGGTCTGA
12401	ATTTTTTCCA TAAAAAAGGT	GACCAGTAGA CTGGTCATCT	CAAGGCCTGC GTTCCGGACG	AGACCGTAAA TCTGGCATTT	CCTGAGCCAG GGACTCGGTC
12451	GCTTTCAAAA CGAAAGTTTT	ACTTGCAGGG TGAACGTCCC	GCTGTGGGGG CGACACCCCC	GTGCGGGCTC CACGCCCGAG	CCACAGGCGA GGTGTCCGCT
12501	CCGCGCGACC GGCGCGCTGG	GTGTCTAGCT CACAGATCGA	TGCTGACGCC ACGACTGCGG	CAACTCGCGC GTTGAGCGCG	CTGTTGCTGC GACAACGACG
12551	TGCTAATAGC ACGATTATCG	GCCCTTCACG CGGGAAGTGC	GACAGTGGCA CTGTCACCGT	GCGTGTCCCG CGCACAGGGC	GGACACATAC CCTGTGTATG
12601	CTAGGTCACT GATCCAGTGA	TGCTGACACT ACGACTGTGA	GTACCGCGAG CATGGCGCTC	GCCATAGGTC CGGTATCCAG	AGGCGCATGT TCCGCGTACA
12651	GGACGAGCAT CCTGCTCGTA	ACTTTCCAGG TGAAAGGTCC	AGATTACAAG TCTAATGTTC	TGTCAGCCGC ACAGTCGGCG	GCGCTGGGGC CGCGACCCCG

FIG.9A-15

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12701	AGGAGGACAC	GGGCAGCCTG	GAGGCAACCC	TAAACTACCT	GCTGACCAAC
	TCCTCCTGTG	CCCGTCGGAC	CTCCGTTGGG	ATTTGATGGA	CGACTGGTTG
12751	CGGCGGCAGA	AGATCCCCCTC	GTTGCACAGT	TTAAACAGCG	AGGAGGAGCG
	GCCGCCGTCT	TCTAGGGGAG	CAACGTGTCA	AATTTGTGCG	TCCTCCTCGC
12801	CATTTTGCGC	TACGTGCAGC	AGAGCGTGAG	CCTTAACCTG	ATGCGCGACG
	GTAAAACGCG	ATGCACGTCG	TCTCGCACTC	GGAATTGGAC	TACGCGCTGC
12851	GGGTAACGCC	CAGCGTGCGG	CTGGACATGA	CCGCGCGCAA	CATGGAACCG
	CCCATTGCGG	GTCGCACCGC	GACCTGTACT	GGCGCGCGTT	GTACCTTGCG
12901	GGCATGTATG	CCTCAAACCG	GCCGTTTATC	AACCGCCTAA	TGGACTACTT
	CCGTACATAC	GGAGTTTGGC	CGGCAAATAG	TTGGCGGATT	ACCTGATGAA
12951	GCATCGCGCG	GCCGCCGTGA	ACCCCGAGTA	TTTCACCAAT	GCCATCTTGA
	CGTAGCGCGC	CGGCGGCACT	TGGGGCTCAT	AAAGTGGTTA	CGGTAGAACT
13001	ACCCGCACTG	GCTACCGCCC	CCTGGTTTCT	ACACCGGGGG	ATTCGAGGTG
	TGGGCGTGAC	CGATGGCGGG	GGACCAAAGA	TGTGGCCCCC	TAAGCTCCAC
13051	CCCGAGGGTA	ACGATGGATT	CCTCTGGGAC	GACATAGACG	ACAGCGTGTT
	GGGCTCCCAT	TGCTACCTAA	GGAGACCCTG	CTGTATCTGC	TGTCGCACAA
13101	TTCCCCGCAA	CCGCAGACCC	TGCTAGAGTT	GCAACAGCGC	GAGCAGGCAG
	AAGGGGCGTT	GGCGTCTGGG	ACGATCTCAA	CGTTGTGCGC	CTCGTCCGTC
13151	AGGCGGCGCT	GCGAAAGGAA	AGCTTCCGCA	GGCCAAGCAG	CTTGTCCGAT
	TCCGCCGCGA	CGCTTTCCTT	TCGAAGGCGT	CCGGTTCGTC	GAACAGGCTA
13201	CTAGGCGCTG	CGGCCCCGCG	GTCAGATGCT	AGTAGCCCAT	TTCCAAGCTT
	GATCCGCGAC	GCCGGGGCGC	CAGTCTACGA	TCATCGGGTA	AAGGTTTCGAA
13251	GATAGGGTCT	CTTACCAGCA	CTCGCACCAC	CCGCCCCGCG	CTGCTGGGCG
	CTATCCCAGA	GAATGGTCGT	GAGCGTGGTG	GGCGGGCGCG	GACGACCCGC
13301	AGGAGGAGTA	CCTAAACAAC	TCGCTGCTGC	AGCCGCAGCG	CGAAAAAAC
	TCCTCCTCAT	GGATTTGTTG	AGCGACGACG	TCGGCGTCGC	GCTTTTTTTG
13351	CTGCCTCCGG	CATTTCCCAA	CAACGGGATA	GAGAGCCTAG	TGGACAAGAT
	GACGGAGGCC	GTAAAGGGTT	GTTGCCCTAT	CTCTCGGATC	ACCTGTTCTA
13401	GAGTAGATGG	AAGACGTACG	CGCAGGAGCA	CAGGGACGTG	CCAGGCCCGC
	CTCATCTACC	TTCTGCATGC	GCGTCCTCGT	GTCCCTGCAC	GGTCCGGGCG
13451	GCCCGCCAC	CCGTCGTCAA	AGGCACGACC	GTCAGCGGGG	TCTGGTGTGG
	CGGGCGGGTG	GGCAGCAGTT	TCCGTGCTGG	CAGTCGCCCC	AGACCACACC
13501	GAGGACGATG	ACTCGGCAGA	CGACAGCAGC	GTCCTGGATT	TGGGAGGGAG
	CTCCTGCTAC	TGAGCCGTCT	GCTGTGCTCG	CAGGACCTAA	ACCCTCCCTC

FIG.9A-16

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13551	TGGCAACCCG ACCGTTGGGC	TTTGCGCACC AAACGCGTGG	TTCGCCCCAG AAGCGGGGTC	GCTGGGGAGA CGACCCCTCT	ATGTTTTAAA TACAAAATTT
13601	AAAAAAAAAA TTTTTTTTTT	GCATGATGCA CGTACTACGT	AAATAAAAAA TTTATTTTTT	CTCACCAAGG GAGTGGTTCC	CCATGGCACC GGTACCGTGG
13651	GAGCGTTGGT CTCGCAACCA	TTTCTTGTAT AAAGAACATA	TCCCCTTAGT AGGGGAATCA	ATGCGGCGCG TACGCCGCGC	CGGCGATGTA GCCGCTACAT
13701	TGAGGAAGGT ACTCCTTCCA	CCTCCTCCCT GGAGGAGGGA	CCTACGAGAG GGATGCTCTC	TGTGGTGAGC ACACCACTCG	GCGGCGCCAG CGCCGCGGTC
13751	TGGCGGCGGC ACCGCCGCCG	GCTGGGTTCT CGACCCAAGA	CCCTTCGATG GGGAAGCTAC	CTCCCCTGGA GAGGGGACCT	CCCGCCGTTT GGGCGGCAAA
13801	GTGCCTCCGC CACGGAGGCG	GGTACCTGCG CCATGGACGC	GCCTACCGGG CGGATGGCCC	GGGAGAAACA CCCTCTTTGT	GCATCCGTTA CGTAGGCAAT
13851	CTCTGAGTTG GAGACTCAAC	GCACCCCTAT CGTGGGGATA	TCGACACCAC AGCTGTGGTG	CCGTGTGTAC GGCACACATG	CTGGTGGACA GACCACCTGT
13901	ACAAGTCAAC TGTTCAAGTTG	GGATGTGGCA CCTACACCGT	TCCCTGAACT AGGGACTTGA	ACCAGAACGA TGGTCTTGCT	CCACAGCAAC GGTGTCTGTTG
13951	TTTCTGACCA AAAGACTGGT	CGGTCATTCA GCCAGTAAGT	AAACAATGAC TTTGTTACTG	TACAGCCCGG ATGTCGGGCC	GGGAGGCAAG CCCTCCGTTT
14001	CACACAGACC GTGTGTCTGG	ATCAATCTTG TAGTTAGAAC	ACGACCGGTC TGCTGGCCAG	GCACTGGGGC CGTGACCCCG	GGCGACCTGA CCGCTGGACT
14051	AAACCATCCT TTTGGTAGGA	GCATACCAAC CGTATGGTTG	ATGCCAAATG TACGGTTTAC	TGAACGAGTT ACTTGCTCAA	CATGTTTACC GTACAAATGG
14101	AATAAGTTTA TTATTCAAAT	AGGCGCGGGT TCCGCGCCCA	GATGGTGTGCG CTACCACAGC	CGCTTGCCTA GCGAACGGAT	CTAAGGACAA GATTCTGTGT
14151	TCAGGTGGAG AGTCCACCTC	CTGAAATACG GACTTTATGC	AGTGGGTGGA TCACCCACCT	GTTACGCTG CAAGTGCAGC	CCCGAGGGCA GGGCTCCCGT
14201	ACTACTCCGA TGATGAGGCT	GACCATGACC CTGGTACTGG	ATAGACCTTA TATCTGGAAT	TGAACAACGC ACTTGTTGCG	GATCGTGGAG CTAGCACCTC
14251	CACTACTTGA GTGATGAACT	AAGTGGGCAG TTCACCCGTC	ACAGAACGGG TGTCTTGCCC	GTTCTGGAAA CAAGACCTTT	GCGACATCGG CGCTGTAGCC
14301	GGTAAAGTTT CCATTTCAAA	GACACCCGCA CTGTGGGCGT	ACTTCAGACT TGAAGTCTGA	GGGGTTTGAC CCCCAACTG	CCCGTCACTG GGGCAGTGAC
14351	GTCTTGTCAT CAGAACAGTA	GCCTGGGGTA CGGACCCCAT	TATACAAACG ATATGTTTGC	AAGCCTTCCA TTCGGAAGGT	TCCAGACATC AGGTCTGTAG

FIG.9A-17

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14401	ATTTTGCTGC	CAGGATGCGG	GGTGGACTTC	ACCCACAGCC	GCCTGAGCAA
	TAAAACGACG	GTCCTACGCC	CCACCTGAAG	TGGGTGTCGG	CGGACTCGTT
14451	CTTGTTGGGC	ATCCGCAAGC	GGCAACCCTT	CCAGGAGGGC	TTTAGGATCA
	GAACAACCCG	TAGGCGTTCC	CCGTTGGGAA	GGTCCTCCCG	AAATCCTAGT
14501	CCTACGATGA	TCTGGAGGGT	GGTAACATTC	CCGCACTGTT	GGATGTGGAC
	GGATGCTACT	AGACCTCCCA	CCATTGTAAG	GGCGTGACAA	CCTACACCTG
14551	GCCTACCAGG	CGAGCTTGAA	AGATGACACC	GAACAGGGCG	GGGGTGGCGC
	CGGATGGTCC	GCTCGAACTT	TCTACTGTGG	CTTGTCCCGC	CCCCACCGCG
14601	AGGCGGCAGC	AACAGCAGTG	GCAGCGGCGC	GGAAGAGAAC	TCCAACGCGG
	TCCGCCGTCC	TTGTCGTAC	CGTCGCCGCG	CCTTCTCTTG	AGGTTGCGCC
14651	CAGCCGCGGC	AATGCAGCCG	GTGGAGGACA	TGAACGATCA	TGCCATTTCG
	GTCGGCGCCG	TTACGTCGGC	CACCTCCTGT	ACTTGCTAGT	ACGGTAAGCG
14701	GGCGACACCT	TTGCCACACG	GGCTGAGGAG	AAGCGCGCTG	AGGCCGAAGC
	CCGCTGTGGA	AACGGTGTGC	CCGACTCCTC	TTCGCGCGAC	TCCGGCTTCG
14751	AGCGGCCGAA	GCTGCCGCCC	CCGCTGCGCA	ACCCGAGGTC	GAGAAGCCTC
	TCGCCGGCTT	CGACGGCGGG	GGCGACGCGT	TGGGCTCCAG	CTCTTCGGAG
14801	AGAAGAAACC	GGTGATCAAA	CCCCTGACAG	AGGACAGCAA	GAAACGCAGT
	TCTTCTTTGG	CCACTAGTTT	GGGGACTGTC	TCCTGTCGTT	CTTTGCGTCA
14851	TACAACCTAA	TAAGCAATGA	CAGCACCTTC	ACCCAGTACC	GCAGCTGGTA
	ATGTTGGATT	ATTCGTTACT	GTCGTGGAAG	TGGGTCATGG	CGTCGACCAT
14901	CCTTGCATAC	AACTACGGCG	ACCCTCAGAC	CGGAATCCGC	TCATGGACCC
	GGAACGTATG	TTGATGCCGC	TGGGAGTCTG	GCCTTAGGCG	AGTACCTGGG
14951	TGCTTTGCAC	TCCTGACGTA	ACCTGCGGCT	CGGAGCAGGT	CTACTGGTCG
	ACGAAACGTG	AGGACTGCAT	TGGACGCCGA	GCCTCGTCCA	GATGACCAGC
15001	TTGCCAGACA	TGATGCAAGA	CCCCGTGACC	TTCCGCTCCA	CGCGCCAGAT
	AACGGTCTGT	ACTACGTTCT	GGGGCACTGG	AAGGCGAGGT	GCGCGGTCTA
15051	CAGCAACTTT	CCGGTGGTGG	GCGCCGAGCT	GTTGCCCGTG	CACTCCAAGA
	GTCGTTGAAA	GGCCACCACC	CGCGGCTCGA	CAACGGGCAC	GTGAGGTTCT
15101	GCTTCTACAA	CGACCAGGCC	GTCTACTCCC	AACTCATCCG	CCAGTTTACC
	CGAAGATGTT	GCTGGTCCGG	CAGATGAGGG	TTGAGTAGGC	GGTCAAATGG
15151	TCTCTGACCC	ACGTGTTCAA	TCGCTTTCCC	GAGAACCAGA	TTTTGGCGCG
	AGAGACTGGG	TGCACAAGTT	AGCGAAAGGG	CTCTTGGTCT	AAAACCGCGC
15201	CCCGCCAGCC	CCCACCATCA	CCACCGTCAG	TGAAAACGTT	CCTGCTCTCA
	GGGCGGTCCG	GGGTGGTAGT	GGTGGCAGTC	ACTTTTGCAA	GGACGAGAGT

FIG.9A-18

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15251 CAGATCACGG GACGCTACCG CTGCGCAACA GCATCGGAGG AGTCCAGCGA
GTCTAGTGCC CTGCGATGGC GACGCGTTGT CGTAGCCTCC TCAGGTCGCT

15301 GTGACCATT A CTGACGCCAG ACGCCGCACC TGCCCCTACG TTTACAAGGC
CACTGGTAAT GACTGCGGTC TGCGGCGTGG ACGGGGATGC AAATGTTCCG

15351 CCTGGGCATA GTCTCGCCGC GCGTCCTATC GAGCCGCACT TTTTGAGCAA
GGACCCGTAT CAGAGCGGCG CGCAGGATAG CTCGGCGTGA AAAACTCGTT

15401 GCATGTCCAT CTTTATATCG CCCAGCAATA ACACAGGCTG GGGCCTGCGC
CGTACAGGTA GGAATATAGC GGGTCGTTAT TGTGTCCGAC CCCGGACGCG

15451 TTCCCAAGCA AGATGTTTGG CGGGGCCAAG AAGCGCTCCG ACCAACACCC
AAGGGTTCGT TCTACAAACC GCCCGGTTTTC TTCGCGAGGC TGGTTGTGGG

15501 AGTGCGCGTG CGCGGGCACT ACCGCGCGCC CTGGGGCGCG CACAAACGCG
TCACGCGCAC GCGCCCGTGA TGGCGCGCGG GACCCCGCGC GTGTTTGC

15551 GCCGCACTGG GCGCACCACC GTCGATGACG CCATCGACGC GGTGGTGGAG
CGGCGTGACC CGCGTGGTGG CAGCTACTGC GGTAGCTGCG CCACCACCTC

15601 GAGGCGCGCA ACTACACGCC CACGCCGCCA CCAGTGTCCA CAGTGGACGC
CTCCGCGCGT TGATGTGCGG GTGCGGCGGT GGTACAGGT GTCACCTGCG

15651 GGCCATT CAG ACCGTGGTGC GCGGAGCCCG GCGCTATGCT AAAATGAAGA
CCGGTAAGTC TGGCACCACG CGCCTCGGGC CGCGATACGA TTTTACTTCT

15701 GACGGCGGAG GCGCGTAGCA CGTCGCCACC GCCGCCGACC CGGCACTGCC
CTGCCGCCTC CGCGCATCGT GCAGCGGTGG CGGCGGCTGG GCCGTGACGG

15751 GCCCAACGCG CGGCGGCGGC CCTGCTTAAC CGCGCACGTC GCACCGGCCG
CGGGTTGCGC GCCGCCGCCG GGACGAATTG GCGCGTGCAG CGTGGCCGGC

15801 ACGGGCGGCC ATGCGGGCCG CTCGAAGGCT GGCCGCGGGT ATTGTCACTG
TGCCCGCCGG TACGCCCGGC GAGCTTCCGA CCGGCGCCCA TAACAGTGAC

15851 TGCCCCCAG GTCCAGGCGA CGAGCGGCCG CCGCAGCAGC CGCGGCCATT
ACGGGGGGTC CAGGTCCGCT GCTCGCCGGC GCGTCTGTCG GCGCCGGTAA

15901 AGTGCTATGA CTCAGGGTCG CAGGGGCAAC GTGTATTGGG TGC GCGACTC
TCACGATACT GAGTCCCAGC GTCCCCGTTG CACATAACCC ACGCGCTGAG

15951 GGTTAGCGGC CTGCGCGTGC CCGTGCGCAC CCGCCCCCG CGCAACTAGA
CCAATCGCCG GACGCGCACG GGCACGCGTG GCGGGGGGGC GCGTTGATCT

16001 TTGCAAGAAA AAATACTTA GACTCGTACT GTTGTATGTA TCCAGCGGCG
AACGTTCTTT TTTGATGAAT CTGAGCATGA CAACATACAT AGGTCGCCGC

16051 GCGGCGCGCA ACGAAGCTAT GTCCAAGCGC AAAATCAAAG AAGAGATGCT
CGCCGCGCGT TGCTTCGATA CAGGTTGCGG TTTTAGTTTC TTCTCTACGA

FIG.9A-19

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16101 CCAGGTCATC GCGCCGGAGA TCTATGGCCC CCCGAAGAAG GAAGAGCAGG
GGTCCAGTAG CGCGGCCTCT AGATACCGGG GGGCTTCTTC CTTCTCGTCC

16151 ATTACAAGCC CCGAAAGCTA AAGCGGGTCA AAAAGAAAAA GAAAGATGAT
TAATGTTCCG GGCTTTTCGAT TTCGCCAGT TTTTCTTTT CTTTCTACTA

16201 GATGATGAAC TTGACGACGA GGTGGAAGTCT CTGCACGCTA CCGCGCCCAG
CTACTACTTG AACTGCTGCT CCACCTTGAC GACGTGCGAT GGCGCGGGTC

16251 GCGACGGGTA CAGTGGAAAG GTCGACGCGT AAAACGTGTT TTGCGACCCG
CGCTGCCCAT GTCACCTTTC CAGCTGCGCA TTTTGCACAA AACGCTGGGC

16301 GCACCACCGT AGTCTTTACG CCCGGTGAGC GCTCCACCCG CACCTACAAG
CGTGGTGCGA TCAGAAATGC GGGCCACTCG CGAGGTGGGC GTGGATGTTC

16351 CGCGTGTATG ATGAGGTGTA CGGCGACGAG GACCTGCTTG AGCAGGCCAA
GCGCACATAC TACTCCACAT GCCGCTGCTC CTGGACGAAC TCGTCCGGTT

16401 CGAGCGCCTC GGGGAGTTTG CCTACGGAAG GCGGCATAAG GACATGCTGG
GCTCGCGGAG CCCCTCAAAC GGATGCCTTT CGCCGTATTG CTGTACGACC

16451 CGTTGCCGCT GGACGAGGGC AACCCAACAC CTAGCCTAAA GCCCGTAACA
GCAACGGCGA CCTGCTCCCG TTGGGTTGTG GATCGGATTT CGGGCATTGT

16501 CTGCAGCAGG TGCTGCCCCG GCTTGCACCG TCCGAAGAAA AGCGCGGCCT
GACGTCGTCC ACGACGGGCG CGAACGTGGC AGGCTTCTTT TCGCGCCGGA

16551 AAAGCGCGAG TCTGGTGAAT TGGCACCCAC CGTGCAGCTG ATGGTACCCA
TTTCGCGCTC AGACCACTGA ACCGTGGGTG GCACGTCGAC TACCATGGGT

16601 AGCGCCAGCG ACTGGAAGAT GTCTTTGAAA AAATGACCGT GGAACCTGGG
TCGCGGTGCG TGACCTTCTA CAGAACCTTT TTTACTGGCA CCTTGGACCC

16651 CTGGAGCCCG AGGTCCGCGT GCGGCCAATC AAGCAGGTGG CGCCGGGACT
GACCTCGGGC TCCAGGCGCA CGCCGGTTAG TTCGTCCACC GCGGCCCTGA

16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT AGCACCAGTA
CCCGCACGTC TGGCACCTGC AAGTCTATGG GTGATGGTCA TCGTGGTCAT

16751 TTGCCACCGC CACAGAGGGC ATGGAGACAC AAACGTCCCC GGTTGCCTCA
AACGGTGGCG GTGTCTCCCG TACCTCTGTG TTTGCAGGGG CCAACGGAGT

16801 GCGGTGGCGG ATGCCGCGGT GCAGGCGGTC GCTGCGGCGG CGTCCAAGAC
CGCCACCGCC TACGGCGCCA CGTCCGCCAG CGACGCCGGC GCAGGTTCTG

16851 CTCTACGGAG GTGCAAACGG ACCCGTGGAT GTTTCGCGTT TCAGCCCCC
GAGATGCCTC CACGTTTGCC TGGGCACCTA CAAAGCGCAA AGTCGGGGG

16901 GGCGCCCGCG CCGTTCGAGG AAGTACGGCG CCGCCAGCGC GCTACTGCCC
CCGCGGGCGC GGCAAGCTCC TTCATGCCG GCGGTGCGG CGATGACGGG

FIG.9A-20

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16951 GAATATGCCC TACATCCTTC CATTGCGCCT ACCCCCGGCT ATCGTGGCTA
CTTATACGGG ATGTAGGAAG GTAACGCGGA TGGGGGCCGA TAGCACCAGT

17001 CACCTACCGC CCCAGAAGAC GAGCAACTAC CCGACGCCGA ACCACCACTG
GTGGATGGCG GGGTCTTCTG CTCGTTGATG GGCTGCGGCT TGGTGGTGAC

17051 GAACCCGCGC CCGCCGTGCG CGTCGCCAGC CCGTGCTGGC CCCGATTTCC
CTTGGGCGGC GGCGGCAGCG GCAGCGGTCTG GGCACGACCG GGGCTAAAGG

17101 GTGCGCAGGG TGGCTCGCGA AGGAGGCAGG ACCCTGGTGC TGCCAACAGC
CACGCGTCCC ACCGAGCGCT TCCTCCGTCC TGGGACCACG ACGGTTGTCTG

17151 GCGCTACCAC CCCAGCATCG TTTAAAAGCC GGTCTTTGTG GTTCTTGACG
CGCGATGGTG GGGTCGTAGC AAATTTTCGG CCAGAAACAC CAAGAACGTC

17201 ATATGGCCCT CACCTGCCGC CTCCGTTTCC CCGTGCCGGG ATTCCGAGGA
TATACCGGGA GTGGACGGCG GAGGCAAAGG GCCACGGCCC TAAGGCTCCT

17251 AGAATGCACC GTAGGAGGGG CATGGCCGGC CACGGCCTGA CGGGCGGCAT
TCTTACGTGG CATCCTCCCC GTACCGGCCG GTGCCGGACT GCCC GCCGTA

17301 GCGTCGTGCG CACCACCGGC GGCGGCGCGC GTCGCACCGT CGCATGCGCG
CGCAGCACGC GTGGTGCCG CCGCCGCGCG CAGCGTGGCA GCGTACGCGC

17351 GCGGTATCCT GCCCCTCCTT ATTCCACTGA TCGCCGCGGC GATTGGCGCC
CGCCATAGGA CGGGGAGGAA TAAGGTGACT AGCGGCGCCG CTAACCGCGG

17401 GTGCCCCGAA TTGCATCCGT GGCCTTGACG GCGCAGAGAC ACTGATTAAA
CACGGGCCTT AACGTAGGCA CCGGAACGTC CGCGTCTCTG TGAATAATTT

17451 AACAAGTTGC ATGTGGAAAA ATCAAAATAA AAAGTCTGGA CTCTCACGCT
TTGTTCAACG TACACCTTTT TAGTTTTATT TTTCAGACCT GAGAGTGCGA

17501 CGCTTGGTCC TGTAACCTATT TTGTAGAATG GAAGACATCA ACTTTGCGTC
GCGAACCAAG ACATTGATAA AACATCTTAC CTTCTGTAGT TGAAACGCAG

17551 TCTGGCCCCG CGACACGGCT CGCGCCCGTT CATGGGAAAC TGGCAAGATA
AGACCGGGGC GCTGTGCCGA GCGCGGGCAA GTACCCTTTG ACCGTTCTAT

17601 TCGGCACCAG CAATATGAGC GGTGGCGCCT TCAGCTGGGG CTCGCTGTGG
AGCCGTGGTC GTTATACTCG CCACCGCGGA AGTCGACCCC GAGCGACACC

17651 AGCGGCATTA AAAATTTTCGG TTCCACCGTT AAGAACTATG GCAGCAAGGC
TCGCCGTAAT TTTTAAAGCC AAGGTGGCAA TTCTTGATAC CGTCGTTCCG

17701 CTGGAACAGC AGCACAGGCC AGATGCTGAG GGATAAGTTG AAAGAGCAAA
GACCTTGTCG TCGTGTCCGG TCTACGACTC CCTATTCAAC TTTCTCGTTT

17751 ATTTCCAACA AAAGGTGGTA GATGGCCTGG CCTCTGGCAT TAGCGGGGTG
TAAAGGTTGT TTTCCACCAT CTACCGGACC GGAGACCGTA ATCGCCCCAC

FIG.9A-21

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17801 GTGGACCTGG CCAACCAGGC AGTGCAAAAT AAGATTAACA GTAAGCTTGA
 CACCTGGACC GGTGTTCCG TCACGTTTTA TTCTAATTGT CATTGCAACT
 17851 TCCCCGCCCT CCCGTAGAGG AGCCTCCACC GGCCGTGGAG ACAGTGTCTC
 AGGGGCGGGA GGGCATCTCC TCGGAGGTGG CCGGCACCTC TGTCACAGAG
 17901 CAGAGGGGCG TGGCGAAAAG CGTCCGCGCC CCGACAGGGA AGAAACTCTG
 GTCTCCCCGC ACCGCTTTTC GCAGGCGCGG GGCTGTCCCT TCTTTGAGAC
 17951 GTGACGCAAA TAGACGAGCC TCCCTCGTAC GAGGAGGCAC TAAAGCAAGG
 CACTGCGTTT ATCTGCTCGG AGGGAGCATG CTCCTCCGTG ATTTGTTCC
 18001 CCTGCCCACC ACCCGTCCCA TCGCGCCCAT GGCTACCGGA GTGCTGGGCC
 GGACGGGTGG TGGGCAGGGT AGCGCGGGTA CCGATGGCCT CACGACCCGG
 18051 AGCACACACC CGTAACGCTG GACCTGCCTC CCCCCGCCGA CACCCAGCAG
 TCGTGTGTGG GCATTGCGAC CTGGACGGAG GGGGGCGGCT GTGGGTCTGC
 18101 AAACCTGTGC TGCCAGGCCC GACCGCCGTT GTTGTAAACC GTCCTAGCCG
 TTTGGACACG ACGGTCCGGG CTGGCGGCAA CAACATTGGG CAGGATCGGC
 18151 CGCGTCCCTG CGCCGCGCCG CCAGCGGTCC GCGATCGTTG CGGCCCGTAG
 GCGCAGGGAC GCGGCGCGGC GGTGCGCAGG CGCTAGCAAC GCCGGGCATC
 18201 CCAGTGGCAA CTGGCAAAGC AACTGAACA GCATCGTGGG TCTGGGGGTG
 GGTCACCGTT GACCGTTTCG TGTGACTTGT CGTAGCACCC AGACCCCCAC
 18251 CAATCCCTGA AGCGCCGACG ATGCTTCTGA TAGCTAACGT GTCGTATGTG
 GTTAGGGACT TCGCGGCTGC TACGAAGACT ATCGATTGCA CAGCATAAC
 18301 TGTCATGTAT GCGTCCATGT CGCCGCCAGA GGAGCTGCTG AGCCGCCGCG
 ACAGTACATA CGCAGGTACA GCGGCGGTCT CCTCGACGAC TCGGCGGCGC
 18351 CGCCCGCTTT CCAAGATGGC TACCCCTTCG ATGATGCCGC AGTGGTCTTA
 GCGGGCGAAA GGTTCCTACCG ATGGGGAAGC TACTACGGCG TCACCAGAAT
 18401 CATGCACATC TCGGGCCAGG ACGCCTCGGA GTACCTGAGC CCCGGGCTGG
 GTACGTGTAG AGCCCGGTCC TGCGGAGCCT CATGGACTCG GGGCCCGACC
 18451 TGCAGTTTGC CCGCGCCACC GAGACGTACT TCAGCCTGAA TAACAAGTTT
 ACGTCAAACG GGCGCGGTGG CTCTGCATGA AGTCGGAATT ATTGTTCAAA
 18501 AGAAACCCCA CGGTGGCGCC TACGCACGAC GTGACCACAG ACCGGTCCCA
 TCTTTGGGGT GCCACCGCGG ATGCGTGCTG CACTGGTGTC TGGCCAGGGT
 18551 GCGTTTGACG CTGCGGTTCA TCCCTGTGGA CCGTGAGGAT ACTGCGTACT
 CGAAACTGC GACGCCAAGT AGGGACACCT GGCACCTCTA TGACGCATGA
 18601 CGTACAAGGC GCGGTTCAAC CTAGCTGTGG GTGATAACCG TGTGCTGGAC
 GCATGTTCCG CGCCAAGTGG GATCGACACC CACTATTGGC ACACGACCTG

FIG.9A-22

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18651 ATGGCTTCCA CGTACTTTGA CATCCGCGGC GTGCTGGACA GGGGCCCTAC
TACCGAAGGT GCATGAAACT GTAGGCGCCG CACGACCTGT CCCC GG GATG

18701 TTTTAAGCCC TACTCTGGCA CTGCCTACAA CGCCCTGGCT CCCAAGGGTG
AAAATTCGGG ATGAGACCGT GACGGATGTT GCGGGACCGA GGGTTCCAC

18751 CCCC AAATCC TTGCGAATGG GATGAAGCTG CTA CTGCTCT TGA AATAAAC
GGGGTTTAGG AACGCTTACC CTACTTCGAC GATGACGAGA ACTTTATTG

18801 CTAGAAGAAG AGGACGATGA CAACGAAGAC GAAGTAGACG AGCAAGCTGA
GATCTTCTTC TCCTGCTACT GTTGCTTCTG CTTCATCTGC TCGTTCGACT

18851 GCAGCAAAAA ACTCACGTAT TTGGGCAGGC GCCTTATTCT GGTATAAATA
CGTCGTTTTT TGAGTGCATA AACCCGTCCG CGGAATAAGA CCATATTTAT

18901 TTACAAAGGA GGGTATTCAA ATAGGTGTCTG AAGGTCAAAC ACCTAAATAT
AATGTTTCCT CCCATAAGTT TATCCACAGC TTCCAGTTTG TGGATTTATA

18951 GCCGATAAAA CATTTC AACC TGAACCTCAA ATAGGAGAAT CTCAGTGGA
CGGCTATTTT GTAAAGTTGG ACTTGGAGTT TATCCTCTTA GAGTCACCAT

19001 CGAAACAGAA ATTAATCATG CAGCTGGGAG AGTCCTAAAA AAGACTACCC
GCTTTGTCTT TAATTAGTAC GTCGACCCTC TCAGGATTTT TTCTGATGG

19051 CAATGAAACC ATGTTACGGT TCATATGCAA AACCCACAAA TGAAAATGGA
GTTACTTTGG TACAATGCCA AGTATACGTT TTGGGTGTTT ACTTTTACCT

19101 GGGCAAGGCA TTCTTGTA AA GCAACAAAAT GGAAAGCTAG AAAGTCAAGT
CCCGTTCCGT AAGAACATTT CGTTGTTTTA CCTTTCGATC TTTCA GTTCA

19151 GGAAATGCAA TTTTCTCAA CTA CTGAGGC AGCCGCAGGC AATGGTGATA
CCTTTACGTT AAAAAGAGTT GATGACTCCG TCGGCGTCCG TTACCACTAT

19201 ACTTGACTCC TAAAGTGGTA TTGTACAGTG AAGATGTAGA TATAGAAACC
TGA ACTGAGG ATTTACCAT AACATGTCAC TTCTACATCT ATATCTTTGG

19251 CCAGACACTC ATATTTCTTA CATGCCCACT ATTAAGGAAG GTA ACTCACG
GGTCTGTGAG TATAAAGAAT GTACGGGTGA TAATTCCTTC CATTGAGTGC

19301 AGAACTAATG GGCCAACAAT CTATGCCCAA CAGGCCTAAT TACATTGCTT
TCTTGATTAC CCGGTTGTTA GATACGGGT GTCCGGATTA ATGTAACGAA

19351 TTAGGGACAA TTTTATTGGT CTAATGTATT ACAACAGCAC GGGTAATATG
AATCCCTGTT AAAATAACCA GATTACATAA TGTTGTCGTG CCCATTATAC

19401 GGTGTTCTGG CGGGCCAAGC ATCGCAGTTG AATGCTGTTG TAGATTTGCA
CCACAAGACC GCCCGGTTCTG TAGCGTCAAC TTACGACAAC ATCTAAACGT

19451 AGACAGAAAC ACAGAGCTTT CATAACAGCT TTTGCTTGAT TCCATTGGTG
TCTGTCTTTG TGTCTCGAAA GTATGGTCGA AAACGA ACTA AGGTAACCAC

FIG.9A-23

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19501	ATAGAACCAG	GTACTTTTCT	ATGTGGAATC	AGGCTGTTGA	CAGCTATGAT
	TATCTTGGTC	CATGAAAAGA	TACACCTTAG	TCCGACAACT	GTCGATACTA
19551	CCAGATGTTA	GAATTATTGA	AAATCATGGA	ACTGAAGATG	AACTTCCAAA
	GGTCTACAAT	CTTAATAACT	TTTAGTACCT	TGACTTCTAC	TTGAAGGTTT
19601	TTACTGCTTT	CCACTGGGAG	GTGTGATTAA	TACAGAGACT	CTTACCAAGG
	AATGACGAAA	GGTGACCCTC	CACACTAATT	ATGTCTCTGA	GAATGGTTCC
19651	TAAACCTAA	AACAGGTCAG	GAAAATGGAT	GGGAAAAAGA	TGCTACAGAA
	ATTTTGGATT	TTGTCCAGTC	CTTTTACCTA	CCCTTTTTTCT	ACGATGTCTT
19701	TTTTTCAGATA	AAAATGAAAT	AAGAGTTGGA	AATAATTTTG	CCATGGAAAT
	AAAAGTCTAT	TTTTACTTTA	TTCTCAACCT	TTATTAAC	GGTACCTTTA
19751	CAATCTAAAT	GCCAACCTGT	GGAGAAATTT	CCTGTACTCC	AACATAGCGC
	GTTAGATTTA	CGGTTGGACA	CCTCTTTAAA	GGACATGAGG	TTGTATCGCG
19801	TGTATTTGCC	CGACAAGCTA	AAGTACAGTC	CTTCCAACGT	AAAAATTTCT
	ACATAAACGG	GCTGTTTCGAT	TTCATGTCAG	GAAGGTTGCA	TTTTTAAAGA
19851	GATAACCCAA	ACACCTACGA	CTACATGAAC	AAGCGAGTGG	TGGCTCCCGG
	CTATTGGGTT	TGTGGATGCT	GATGTACTTG	TTGCTCACC	ACCGAGGGCC
19901	GCTAGTGGAC	TGCTACATTA	ACCTTGGAGC	ACGCTGGTCC	CTTGACTATA
	CGATCACCTG	ACGATGTAAT	TGGAACCTCG	TGCGACCAGG	GAAGTATAT
19951	TGGACAACGT	CAACCCATTT	AACCACCACC	GCAATGCTGG	CCTGCGCTAC
	ACCTGTTGCA	GTTGGGTAAA	TTGGTGGTGG	CGTTACGACC	GGACGCGATG
20001	CGCTCAATGT	TGCTGGGCAA	TGGTCGCTAT	GTGCCCTTCC	ACATCCAGGT
	GCGAGTTACA	ACGACCCGTT	ACCAGCGATA	CACGGGAAGG	TGTAGGTCCA
20051	GCCTCAGAAG	TTCTTTGCCA	TTAAAAACCT	CCTTCTCCTG	CCGGGCTCAT
	CGGAGTCTTC	AAGAAACGGT	AATTTTGGGA	GGAAGAGGAC	GGCCCCAGTA
20101	ACACCTACGA	GTGGAACCTC	AGGAAGGATG	TTAACATGGT	TCTGCAGAGC
	TGTGGATGCT	CACCTTGAAG	TCCTTCCTAC	AATTGTACCA	AGACGTCTCG
20151	TCCCTAGGAA	ATGACCTAAG	GGTTGACGGA	GCCAGCATTG	AGTTTGATAG
	AGGGATCCTT	TACTGGATTG	CCAAGTGCCT	CGGTCGTAAT	TCAAAGTATC
20201	CATTTGCCTT	TACGCCACCT	TCTTCCCCAT	GGCCCACAAC	ACCGCCTCCA
	GTAACGGAA	ATGCGGTGGA	AGAAGGGGTA	CCGGGTGTTG	TGGCGGAGGT
20251	CGCTTGAGGC	CATGCTTAGA	AACGACACCA	ACGACCAGTC	CTTTAACGAC
	GCGAACTCCG	GTACGAATCT	TTGCTGTGGT	TGCTGGTCAG	GAAATTGCTG
20301	TATCTCTCCG	CCGCCAACAT	GCTCTACCCT	ATACCCGCCA	ACGCTACCAA
	ATAGAGAGGC	GGCGGTGTA	CGAGATGGGA	TATGGGCGGT	TGCGATGGTT

FIG.9A-24

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20351	CGTGCCCAT	TCCATCCCCT	CCCGCAACTG	GGCGGCTTTC	CGCGGCTGGG
	GCACGGGTAT	AGGTAGGGGA	GGGCGTTGAC	CCGCCGAAAG	GCGCCGACCC
20401	CCTTCACGCG	CCTTAAGACT	AAGGAAACCC	CATCACTGGG	CTCGGGCTAC
	GGAAGTGCGC	GGAATTCTGA	TTCCTTTGGG	GTAAGTGACCC	GAGCCCGATG
20451	GACCCTTATT	ACACCTACTC	TGGCTCTATA	CCCTACCTAG	ATGGAACCTT
	CTGGGAATAA	TGTGGATGAG	ACCGAGATAT	GGGATGGATC	TACCTTGGAA
20501	TTACCTCAAC	CACACCTTTA	AGAAGGTGGC	CATTACCTTT	GA CTCTTCTG
	AATGGAGTTG	GTGTGGAAAT	TCTTCCACCG	GTAATGGAAA	CTGAGAAGAC
20551	TCAGCTGGCC	TGGCAATGAC	CGCCTGCTTA	CCCCAACGA	GTTTGAAATT
	AGTCGACCGG	ACCGTTACTG	GCGGACGAAT	GGGGGTTGCT	CAAACCTTAA
20601	AAGCGCTCAG	TTGACGGGGA	GGGTTACAAC	GTTGCCCAGT	GTAACATGAC
	TTGCGGAGTC	AACTGCCCCT	CCCAATGTTG	CAACGGGTCA	CATTGTACTG
20651	CAAAGACTGG	TTCCTGGTAC	AAATGCTAGC	TAACATAAAC	ATTGGCTACC
	GTTTCTGACC	AAGGACCATG	TTTACGATCG	ATTGATATTG	TAACCGATGG
20701	AGGGCTTCTA	TATCCCAGAG	AGCTACAAGG	ACCGCATGTA	CTCCTTCTTT
	TCCCGAAGAT	ATAGGGTCTC	TCGATGTTCC	TGGCGTACAT	GAGGAAGAAA
20751	AGAAACTTCC	AGCCCATGAG	CCGTCAGGTG	GTGGATGATA	CTAAATACAA
	TCTTTGAAGG	TCGGGTACTC	GGCAGTCCAC	CACCTACTAT	GATTTATGTT
20801	GGACTACCAA	CAGGTGGGCA	TCCTACACCA	ACACAACAAC	TCTGGATTTG
	CCTGATGGTT	GTCCACCCGT	AGGATGTGGT	TGTGTTGTTG	AGACCTAAAC
20851	TTGGCTACCT	TGCCCCCACC	ATGCGCGAAG	GACAGGCCTA	CCCTGCTAAC
	AACCGATGGA	ACGGGGGTGG	TACGCGCTTC	CTGTCCGGAT	GGGACGATTG
20901	TTCCCCTATC	CGCTTATAGG	CAAGACCGCA	GTTGACAGCA	TTACCCAGAA
	AAGGGGATAG	GCGAATATCC	GTTCTGGCGT	CAACTGTCGT	AATGGGTCTT
20951	AAAGTTTCTT	TGCGATCGCA	CCCTTTGGCG	CATCCCATTG	TCCAGTAACT
	TTTCAAAGAA	ACGCTAGCGT	GGGAAACCGC	GTAGGGTAAG	AGGTCATTGA
21001	TTATGTCCAT	GGGCGCACTC	ACAGACCTGG	GCCAAAACCT	TCTCTACGCC
	AATACAGGTA	CCCGCGTGAG	TGTCTGGACC	CGGTTTTGGA	AGAGATGCGG
21051	AACTCCGCC	ACGCGCTAGA	CATGACTTTT	GAGGTGGATC	CCATGGACGA
	TTGAGGCGGG	TGCGCGATCT	GTA CTGAAAA	CTCCACCTAG	GGTACCTGCT
21101	GCCCAACCCT	CTTTATGTTT	TGTTTGAAGT	CTTTGACGTG	GTCCGTGTGC
	CGGGTGGGAA	GAAATACAAA	ACAAACTTCA	GAAACTGCAC	CAGGCACACG
21151	ACCAGCCGCA	CCGCGGCGTC	ATCGAAACCG	TGTACCTGCG	CACGCCCTTC
	TGGTCGGCGT	GGCGCCGCAG	TAGCTTTGGC	ACATGGACGC	GTGCGGGAAG

FIG.9A-25

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21201 TCGGCCGGCA ACGCCACAAC ATAAAGAAGC AAGCAACATC AACAAACAGCT
AGCCGGCCGT TGCAGGTGTTG TATTTCTTCG TTCGTTGTAG TTGTTGTCTGA

21251 GCCGCCATGG GCTCCAGTGA GCAGGAACTG AAAGCCATTG TCAAAGATCT
CGGCGGTACC CGAGGTCACG CGTCCTTGAC TTTCGGTAAC AGTTTCTAGA

21301 TGGTTGTGGG CCATATTTTT TGGGCACCTA TGACAAGCGC TTTCCAGGCT
ACCAACACCC GGTATAAAAA ACCCGTGGAT ACTGTTCTCG AAAGGTCCGA

21351 TTGTTTCTCC ACACAAGCTC GCCTGCGCCA TAGTCAATAC GGCCGGTCTGC
AACAAAGAGG TGTGTTCTGAG CGGACGCGGT ATCAGTTATG CCGGCCAGCG

21401 GAGACTGGGG GCGTACACTG GATGGCCTTT GCCTGGAACC CGCACTCAAA
CTCTGACCCC CGCATGTGAC CTACCGGAAA CGGACCTTGG GCGTGAGTTT

21451 AACATGCTAC CTCTTTGAGC CCTTTGGCTT TTCTGACCAG CGACTCAAGC
TTGTACGATG GAGAACTCG GGAAACCGAA AAGACTGGTC GCTGAGTTCTG

21501 AGGTTTACCA GTTTGAGTAC GAGTCACTCC TGCGCCGTAG CGCCATTGCT
TCCAAATGGT CAAACTCATG CTCAGTGAGG ACGCGGCATC GCGGTAACGA

21551 TCTTCCCCCG ACCGCTGTAT AACGCTGGAA AAGTCCACCC AAAGCGTACA
AGAAGGGGGC TGGCGACATA TTGCGACCTT TTCAGGTGGG TTTCGCATGT

21601 GGGGCCCAAC TCGGCCGCCT GTGGACTATT CTGCTGCATG TTTCTCCACG
CCCCGGGTTG AGCCGGCGGA CACCTGATAA GACGACGTAC AAAGAGGTGC

21651 CCTTTGCCAA CTGGCCCCAA ACTCCCATGG ATCACAACCC CACCATGAAC
GGAAACGGTT GACCGGGGTT TGAGGTACC TAGTGTTGGG GTGGTACTTG

21701 CTTATTACCG GGGTACCCAA CTCCATGCTC AACAGTCCCC AGGTACAGCC
GAATAATGGC CCCATGGGTT GAGGTACGAG TTGTCAGGGG TCCATGTCGG

21751 CACCCTGCGT CGCAACCAGG AACAGCTCTA CAGCTTCCTG GAGCGCCACT
GTGGGACGCA GCGTTGGTCC TTGTCGAGAT GTCGAAGGAC CTCGCGGTGA

21801 CGCCCTACTT CCGCAGCCAC AGTGCGCAGA TTAGGAGCGC CACTTCTTTT
GCGGGATGAA GCGGTCGGTG TCACGCGTCT AATCCTCGCG GTGAAGAAAA

21851 TGTCACCTGA AAAACATGTA AAAATAATGT ACTAGAGACA CTTTCAATAA
ACAGTGAAC TTTTGTACAT TTTTATTACA TGATCTCTGT GAAAGTTATT

21901 AGGCAAATGC TTTTATTTGT ACACTCTCGG GTGATTATTT ACCCCCACCC
TCCGTTTACG AAAATAAACA TGTGAGAGCC CACTAATAAA TGGGGGTGGG

21951 TTGCCGTCTG CGCCGTTTAA AAATCAAAGG GGTTCTGCCG CGCATCGCTA
AACGGCAGAC GCGGCAAATT TTAGTTTCC CCAAGACGGC GCGTAGCGAT

22001 TGCGCCACTG GCAGGGACAC GTTGCGATAC TGGTGTTTAG TGCTCCACTT
ACGCGGTGAC CGTCCCTGTG CAACGCTATG ACCACAAATC ACGAGGTGAA

FIG.9A-26

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22051 AAACCTCAGGC ACAACCATCC GCGGCAGCTC GGTGAAGTTT TCACTCCACA
TTTGAGTCCG TGTTGGTAGG CGCCGTCGAG CCACTTCAAA AGTGAGGTGT

22101 GGCTGCGCAC CATCACCAAC GCGTTTAGCA GGTCGGGCGC CGATATCTTG
CCGACGCGTG GTAGTGGTTG CGCAAATCGT CCAGCCC GCG GCTATAGAAC

22151 AAGTCGCACT TGGGGCCTCC GCCCTGCGCG CGCGAGTTGC GATACACAGG
TTCAGCGTCA ACCCCGGAGG CGGGACGCGC GCGCTCAACG CTATGTGTCC

22201 GTTGCAGCAC TGGAACACTA TCAGCGCCGG GTGGTGCACG CTGGCCAGCA
CAACGTCGTG ACCTTGATGAT AGTCGCGGCC CACCACGTGC GACCGGTCTG

22251 CGCTCTTGTC GGAGATCAGA TCCGCGTCCA GGTCTCCGCG GTTGCTCAGG
GCGAGAACAG CCTCTAGTCT AGGCGCAGGT CCAGGAGGCG CAACGAGTCC

22301 GCGAACGGAG TCAACTTTGG TAGCTGCCTT CCCAAAAGG GCGCGTGCCC
CGCTTGCCCTC AGTTGAAACC ATCGACGGAA GGGTTTTTCC CGCGCACGGG

22351 AGGCTTTGAG TTGCACTCGC ACCGTAGTGG CATCAAAAGG TGACCGTGCC
TCCGAAACTC AACGTGAGCG TGGCATCACC GTAGTTTTCC ACTGGCACGG

22401 CGGTCTGGGC GTTAGGATAC AGCGCCTGCA TAAAAGCCTT GATCTGCTTA
GCCAGACCCG CAATCCTATG TCGCGGACGT ATTTTCGGAA CTAGACGAAT

22451 AAAGCCACCT GAGCCTTTGC GCCTTCAGAG AAGAACATGC CGCAAGACTT
TTTCGGTGGA CTCGGAACG CGGAAGTCTC TTCTTGACG GCGTTCTGAA

22501 GCCGGAAAAC TGATTGGCCG GACAGGCCGC GTCGTGCACG CAGCACCTTG
CGGCCTTTTG ACTAACGGC CTGTCCGGCG CAGCACGTGC GTCGTGGAAC

22551 CGTCGGTGTT GGAGATCTGC ACCACATTTT GGCCCCACCG GTTCTTCACG
GCAGCCACAA CCTCTAGACG TGGTGTAAG CCGGGGTGGC CAAGAAGTGC

22601 ATCTTGCCCT TGCTAGACTG CTCCTTCAGC GCGCGCTGCC CGTTTTCGCT
TAGAACCGGA ACGATCTGAC GAGGAAGTCG CGCGCGACGG GCAAAGCGA

22651 CGTCACATCC ATTTCAATCA CGTGCTCCTT ATTTATCATA ATGCTTCCGT
GCAGTGATAG TAAAGTTAGT GCACGAGGAA TAAATAGTAT TACGAAGGCA

22701 GTAGACACTT AAGCTCGCCT TCGATCTCAG CGCAGCGGTG CAGCCACAAC
CATCTGTGAA TTCGAGCGGA AGCTAGAGTC GCGTCGCCAC GTCGGTGTTG

22751 GCGCAGCCCCG TGGGCTCGTG ATGCTTGTAG GTCACCTCTG CAAACGACTG
CGCGTCGGGC ACCCGAGCAC TACGAACATC CAGTGGAGAC GTTTGCTGAC

22801 CAGGTACGCC TGCAGGAATC GCCCATCAT CGTCACAAAG GTCTTGTTGC
GTCCATGCGG ACGTCCTTAG CGGGGTAGTA GCAGTGTTTC CAGAACAACG

22851 TGGTGAAGGT CAGCTGCAAC CCGCGGTGCT CCTCGTTCAG CCAGGTCTTG
ACCACTTCCA GTCGACGTTG GGCGCCACGA GGAGCAAGTC GGTCCAGAAC

FIG.9A-27

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22901	CATACGGCCG	CCAGAGCTTC	CACTTGGTCA	GGCAGTAGTT	TGAAGTTCGC
	GTATGCCGGC	GGTCTCGAAG	GTGAACCAAGT	CCGTCATCAA	ACTTCAAGCG
22951	CTTTAGATCG	TTATCCACGT	GGTACTTGTC	CATCAGCGCG	CGCGCAGCCT
	GAAATCTAGC	AATAGGTGCA	CCATGAACAG	GTAGTCGCGC	GCGCGTCGGA
23001	CCATGCCCTT	CTCCCACGCA	GACACGATCG	GCACACTCAG	CGGGTTCATC
	GGTACGGGAA	GAGGGTGCGT	CTGTGCTAGC	CGTGTGAGTC	GCCCAAGTAG
23051	ACCGTAATTT	CACTTTCCGC	TTCGCTGGGC	TCTTCCTCTT	CCTCTTGCGT
	TGGCATTAAA	GTGAAAGGCG	AAGCGACCCG	AGAAGGAGAA	GGAGAACGCA
23101	CCGCATACCA	CGCGCCACTG	GGTCGTCTTC	ATTCAGCCGC	CGCACTGTGC
	GGCGTATGGT	GCGCGGTGAC	CCAGCAGAAG	TAAGTCGGCG	GCGTGACACG
23151	GCTTACCTCC	TTTGCCATGC	TTGATTAGCA	CCGGTGGGTT	GCTGAAACCC
	CGAATGGAGG	AAACGGTACG	AACTAATCGT	GGCCACCCAA	CGACTTTGGG
23201	ACCATTTGTA	GCGCCACATC	TTCTCTTTCT	TCCTCGCTGT	CCACGATTAC
	TGGTAAACAT	GCGGGTGTAG	AAGAGAAAGA	AGGAGCGACA	GGTGCTAATG
23251	CTCTGGTGAT	GGCGGGCGCT	CGGGCTTGGG	AGAAGGGCGC	TTCTTTTTCT
	GAGACCACTA	CCGCCCGCGA	GCCCGAACCC	TCTTCCCGCG	AAGAAAAAGA
23301	TCTTGGGCGC	AATGGCCAAA	TCCGCCGCCG	AGGTCGATGG	CCGCGGGCTG
	AGAACCCGCG	TTACCGGTTT	AGGCGGCGGC	TCCAGCTACC	GGCGCCCGAC
23351	GGTGTGCGCG	GCACCAGCGC	GTCTTGTGAT	GAGTCTTCCT	CGTCCTCGGA
	CCACACGCGC	CGTGGTCGCG	CAGAACACTA	CTCAGAAGGA	GCAGGAGCCT
23401	CTCGATACGC	CGCCTCATCC	GCTTTTTTGG	GGGCGCCCGG	GGAGGCGGCG
	GAGCTATGCG	GCGGAGTAGG	CGAAAAAACC	CCCGCGGGCC	CCTCCGCCGC
23451	GCGACGGGGA	CGGGGACGAC	ACGTCTCTCA	TGGTTGGGGG	ACGTGCGGCC
	CGCTGCCCTT	GCCCCTGCTG	TGCAGGAGGT	ACCAACCCCC	TGCAGCGCGG
23501	GCACCGCGTC	CGCGCTCGGG	GGTGGTTTTG	CGCTGCTCCT	CTTCCCGACT
	CGTGGCGCAG	GCGCGAGCCC	CCACCAAAGC	GCGACGAGGA	GAAGGGCTGA
23551	GGCCATTTCC	TTCTCCTATA	GGCAGAAAAA	GATCATGGAG	TCAGTCGAGA
	CCGGTAAAGG	AAGAGGATAT	CCGTCTTTTT	CTAGTACCTC	AGTCAGCTCT
23601	AGAAGGACAG	CCTAACCGCC	CCCTCTGAGT	TCGCCACCAC	CGCCTCCACC
	TCTTCCTGTC	GGATTGGCGG	GGGAGACTCA	AGCGGTGGTG	GCGGAGGTGG
23651	GATGCCGCCA	ACGCGCCTAC	CACCTTCCCC	GTCGAGGCAC	CCCCGCTTGA
	CTACGGCGGT	TGCGCGGATG	GTGGAAGGGG	CAGCTCCGTG	GGGGCGAACT
23701	GGAGGAGGAA	GTGATTATCG	AGCAGGACCC	AGGTTTTGTA	AGCGAAGACG
	CCTCCTCCTT	CACTAATAGC	TCGTCTGGG	TCCAAAACAT	TCGCTTCTGC

FIG.9A-28

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23751 ACGAGGACCG CTCAGTACCA ACAGAGGATA AAAAGCAAGA CCAGGACAAC
TGCTCCTGGC GAGTCATGGT TGTCTCTAT TTTTCGTTCT GGTCTGTG

23801 GCAGAGGCAA ACGAGGAACA AGTCGGGCGG GGGGACGAAA GGCATGGCGA
CGTCTCCGTT TGCTCCTTGT TCAGCCCGCC CCCCTGCTTT CCGTACCGCT

23851 CTACCTAGAT GTGGGAGACG ACGTGCTGTT GAAGCATCTG CAGCGCCAGT
GATGGATCTA CACCCTCTGC TGCACGACAA CTTCTAGAC GTCGCGGTCA

23901 GCGCCATTAT CTGCGACGCG TTGCAAGAGC GCAGCGATGT GCCCCTCGCC
CGCGGTAATA GACGCTGCGC AACGTTCTCG CGTCGCTACA CGGGGAGCGG

23951 ATAGCGGATG TCAGCCTTGC CTACGAACGC CACCTATTCT CACCGCGCGT
TATCGCCTAC AGTCGGAACG GATGCTTGCG GTGGATAAGA GTGGCGCGCA

24001 ACCCCCCAAA CGCCAAGAAA ACGGCACATG CGAGCCCAAC CCGCGCCTCA
TGGGGGTTT GCGGTTCTTT TGCCGTGTAC GTCGGGTTG GGCGCGGAGT

24051 ACTTCTACCC CGTATTTGCC GTGCCAGAGG TGCTTGCCAC CTATCACATC
TGAAGATGGG GCATAAACGG CACGGTCTCC ACGAACGGTG GATAGTGTAG

24101 TTTTTCCAAA ACTGCAAGAT ACCCCTATCC TGCCGTGCCA ACCGCAGCCG
AAAAAGTTT TGACGTTCTA TGGGGATAGG ACGGCACGGT TGGCGTCGGC

24151 AGCGGACAAG CAGCTGGCCT TGCGGCAGGG CGCTGTCATA CCTGATATCG
TCGCTGTTC GTCGACCGGA ACGCCGTCCC GCGACAGTAT GGACTATAGC

24201 CCTCGCTCAA CGAAGTGCCA AAAATCTTTG AGGGTCTTGG ACGCGACGAG
GGAGCGAGTT GCTTCACGGT TTTTAGAAAC TCCAGAACC TGCGCTGCTC

24251 AAGCGCGCGG CAAACGCTCT GCAACAGGAA AACAGCGAAA ATGAAAGTCA
TTCGCGCGCC GTTTGCGAGA CGTTGTCTT TTGTCGCTT TACTTTCACT

24301 CTCTGGAGTG TTGGTGGAAC TCGAGGGTGA CAACGCGCGC CTAGCCGTAC
GAGACCTCAC AACCACCTTG AGCTCCCACT GTTGCGCGCG GATCGGCATG

24351 TAAAACGCAG CATCGAGGTC ACCCACTTTG CCTACCCGGC ACTTAACCTA
ATTTTGCGTC GTAGCTCCAG TGGGTGAAAC GGATGGGCCG TGAATTGGAT

24401 CCCCCCAAGG TCATGAGCAC AGTCATGAGT GAGCTGATCG TGCGCCGTGC
GGGGGGTTCC AGTACTCGTG TCAGTACTCA CTCGACTAGC ACGCGGCACG

24451 GCAGCCCCTG GAGAGGGATG CAAATTTGCA AGAACAAACA GAGGAGGGCC
CGTCGGGGAC CTCTCCCTAC GTTTAAACGT TCTTGTTTGT CTCCTCCCGG

24501 TACCCGCGAGT TGGCGACGAG CAGCTAGCGC GCTGGCTTCA AACGCGCGAG
ATGGGCGTCA ACCGCTGCTC GTCGATCGCG CGACCGAAGT TTGCGCGCTC

24551 CCTGCCGACT TGGAGGAGCG ACGCAAATA ATGATGGCCG CAGTGCTCGT
GGACGGCTGA ACCTCCTCGC TGCCTTTGAT TACTACCGGC GTCACGAGCA

FIG.9A-29

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24601 TACCGTGGAG CTTGAGTGCA TGCAGCGGTT CTTTGCTGAC CCGGAGATGC
ATGGCACCTC GAACTCACGT ACGTCGCCAA GAAACGACTG GGCCTCTACG

24651 AGCGCAAGCT AGAGGAAACA TTGCACTACA CCTTTCGACA GGGCTACGTA
TCGCGTTCTGA TCTCCTTTGT AACGTGATGT GGAAAGCTGT CCCGATGCAT

24701 CGCCAGGCCT GCAAGATCTC CAACGTGGAG CTCTGCAACC TGGTCTCCTA
GCGGTCCGGA CGTTCTAGAG GTTGACCTC GAGACGTTGG ACCAGAGGAT

24751 CCTTGGAATT TTGCACGAAA ACCGCCTTGG GCAAAACGTG CTTCAATTCCA
GGAAACCTTAA AACGTGCTTT TGGCGGAACC CGTTTTGCAC GAAGTAAGGT

24801 CGCTCAAGGG CGAGGCGCGC CGCGACTACG TCCGCGACTG CGTTTACTTA
GCGAGTTCCC GCTCCGCGCG GCGCTGATGC AGGCGCTGAC GCAAATGAAT

24851 TTTCTATGCT ACACCTGGCA GACGGCCATG GGCGTTTGGC AGCAGTGCTT
AAAGATACGA TGTGGACCGT CTGCCGGTAC CCGCAAACCG TCGTCACGAA

24901 GGAGGAGTGC AACCTCAAGG AGCTGCAGAA ACTGCTAAAG CAAAACCTTGA
CCTCCTCACG TTGGAGTTCC TCGACGTCTT TGACGATTTT GTTTTGAAGT

24951 AGGACCTATG GACGGCCTTC AACGAGCGCT CCGTGGCCGC GCACCTGGCG
TCCTGGATAC CTGCCGGAAG TTGCTCGCGA GGCACCGGCG CGTGGACCGC

25001 GACATCATTT TCCCCGAACG CCTGCTTAAA ACCCTGCAAC AGGGTCTGCC
CTGTAGTAAA AGGGGCTTGC GGACGAATTT TGGGACGTTG TCCCAGACGG

25051 AGACTTCACC AGTCAAAGCA TGTTGCAGAA CTTTAGGAAC TTTATCCTAG
TCTGAAGTGG TCAGTTTCGT ACAACGTCTT GAAATCCTTG AAATAGGATC

25101 AGCGCTCAGG AATCTTGCCC GCCACCTGCT GTGCACTTCC TAGCGACTTT
TCGCGAGTCC TTAGAACGGG CGGTGGACGA CACGTGAAGG ATCGCTGAAA

25151 GTGCCCCATTA AGTACCGCGA ATGCCCTCCG CCGCTTTGGG GCCACTGCTA
CACGGGTAAT TCATGGCGCT TACGGGAGGC GGCGAAACCC CGGTGACGAT

25201 CCTTCTGCAG CTAGCCAACT ACCTTGCCTA CCACTCTGAC ATAATGGAAG
GGAAAGACGC GATCGGTTGA TGGAACGGAT GGTGAGACTG TATTACCTTC

25251 ACGTGAGCGG TGACGGTCTA CTGGAGTGTC ACTGTGCTG CAACCTATGC
TGCACTCGCC ACTGCCAGAT GACCTCACAG TGACAGCGAC GTTGGATACG

25301 ACCCGCACCC GCTCCCTGGT TTGCAATTCG CAGCTGCTTA ACGAAAGTCA
TGGGGCGTGG CGAGGGACCA AACGTTAAGC GTCGACGAAT TGCTTTCAGT

25351 AATTATCGGT ACCTTTGAGC TGCAGGGTCC CTCGCCTGAC GAAAAGTCCG
TTAATAGCCA TGGAACTCG ACGTCCCAGG GAGCGGACTG CTTTTCAGGC

25401 CGGCTCCGGG GTTGAAACTC ACTCCGGGGC TGTGGACGTC GGCTTACCTT
GCCGAGGCCC CAACTTTGAG TGAGGCCCGG ACACCTGCAG CCGAATGGAA

FIG.9A-30

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25451 CGCAAATTTG TACCTGAGGA CTACCACGCC CACGAGATTA GGTTCTACGA
GCGTTTAAAC ATGGACTCCT GATGGTGCGG GTGCTCTAAT CCAAGATGCT

25501 AGACCAATCC CGCCCGCCTA ATGCGGAGCT TACCGCCTGC GTCATTACCC
TCTGGTTAGG GCGGGCGGAT TACGCCTCGA ATGGCGGACG CAGTAATGGG

25551 AGGGCCACAT TCTTGGCCAA TTGCAAGCCA TCAACAAAGC CCGCCAAGAG
TCCCGGTGTA AGAACCGGTT AACGTTCCGGT AGTTGTTTCG GCGGGTTCCT

25601 TTTCTGCTAC GAAAGGGACG GGGGGTTTAC TTGGACCCCC AGTCCGGCGA
AAAGACGATG CTTTCCCTGC CCCCCAAATG AACCTGGGGG TCAGGCCGCT

25651 GGAGCTCAAC CCAATCCCCC CGCCGCCGCA GCCCTATCAG CAGCAGCCGC
CCTCGAGTTG GGTTAGGGGG GCGGCGGCGT CGGGATAGTC GTCGTCGGCG

25701 GGGCCCTTGC TTCCAGGAT GGCACCCAAA AAGAAGCTGC AGCTGCCGCC
CCCGGGAACG AAGGGTCTTA CCGTGGGTTT TTCTTCGACG TCGACGGCGG

25751 GCCACCCACG GACGAGGAGG AATACTGGGA CAGTCAGGCA GAGGAGGTTT
CGGTGGGTGC CTGCTCCTCC TTATGACCCT GTCAGTCCGT CTCCTCCAAA

25801 TGGACGAGGA GGAGGAGGAC ATGATGGAAG ACTGGGAGAG CCTAGACGAG
ACCTGCTCCT CCTCCTCTG TACTACCTTC TGACCCTCTC GGATCTGCTC

25851 GAAGCTTCCG AGGTCGAAGA GGTGTCAGAC GAAACACCGT CACCCTCGGT
CTTCGAAGGC TCCAGCTTCT CCACAGTCTG CTTTGTGGCA GTGGGAGCCA

25901 CGCATTCCCC TCGCCGGCGC CCCAGAAATC GGCAACCGGT TCCAGCATGG
GCGTAAGGGG AGCGGCCGCG GGGTCTTTAG CCGTTGGCCA AGGTGCTACC

25951 CTACAACCTC CGCTCCTCAG GCGCCGCCGG CACTGCCCCT TCGCCGACCC
GATGTTGGAG GCGAGGAGTC CGCGGCGGCC GTGACGGGCA AGCGGCTGGG

26001 AACCGTAGAT GGGACACCAC TGAACACAGG GCCGGTAAGT CCAAGCAGCC
TTGGCATCTA CCCTGTGGTG ACCTTGGTCC CGGCCATTCA GGTTGCTCGG

26051 GCCGCCGTTA GCCCAAGAGC AACAACAGCG CCAAGGCTAC CGCTCATGGC
CGGCGGCAAT CGGGTTCTCG TTGTTGTCGC GGTTCGGATG GCGAGTACCG

26101 GCGGGCACAA GAACGCCATA GTTGCTTGCT TGCAAGACTG TGGGGGCAAC
CGCCCGTGTT CTTGCGGTAT CAACGAACGA ACGTTCTGAC ACCCCCGTTG

26151 ATCTCCTTCG CCCGCCGCTT TCTTCTCTAC CATCACGGCG TGGCCTTCCC
TAGAGGAAGC GGGCGGCGAA AGAAGAGATG GTAGTGCCGC ACCGGAAGGG

26201 CCGTAACATC CTGCATTACT ACCGTCATCT CTACAGCCCA TACTGCACCG
GGCATTGTAG GACGTAATGA TGGCAGTAGA GATGTCGGGT ATGACGTGGC

26251 GCGGCAGCGG CAGCAACAGC AGCGGCCACA CAGAAGCAAA GGCGACCGGA
CGCCGTCGCC GTCGTTGTCG TCGCCGGTGT GTCTTCGTTT CCGCTGGCCT

FIG.9A-31

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26301 TAGCAAGACT CTGACAAAGC CCAAGAAATC CACAGCGGCG GCAGCAGCAG
ATCGTTCTGA GACTGTTTCG GGTTCTTTAG GTGTCGCCGC CGTCGTCGTC

26351 GAGGAGGAGC GCTGCGTCTG GCGCCCAACG AACCCGTATC GACCCGCGAG
CTCCTCCTCG CGACGCAGAC CGCGGGTTGC TTGGGCATAG CTGGGCGCTC

26401 CTTAGAAACA GGATTTTTCC CACTCTGTAT GCTATATTTC AACAGAGCAG
GAATCTTTGT CCTAAAAAGG GTGAGACATA CGATATAAAG TTGTCTCGTC

26451 GGGCCAAGAA CAAGAGCTGA AAATAAAAAA CAGGTCTCTG CGATCCCTCA
CCCGGTTCTT GTTCTCGACT TTTATTTTTT GTCCAGAGAC GCTAGGGAGT

26501 CCCGCAGCTG CCTGTATCAC AAAAGCGAAG ATCAGCTTCG GCGCACGCTG
GGGCGTCGAC GGACATAGTG TTTTCGCTTC TAGTCGAAGC CGCGTGCGAC

26551 GAAGACGCGG AGGCTCTCTT CAGTAAATAC TGCGCGCTGA CTCTTAAGGA
CTTCTGCGCC TCCGAGAGAA GTCATTTATG ACGCGCGACT GAGAATTCTT

26601 CTAGTTTCGC GCCCTTTCTC AAATTTAAGC GCGAAACTA CGTCATCTCC
GATCAAAGCG CGGGAAAGAG TTAAATTTCG CGCTTTTGAT GCAGTAGAGG

26651 AGCGGCCACA CCCGGCGCCA GCACCTGTTG TCAGCGCCAT TATGAGCAAG
TCGCCGTGT GGGCCGCGGT CGTGGACAAC AGTCGCGGTA ATACTCGTTC

26701 GAAATTCCCA CGCCCTACAT GTGGAGTTAC CAGCCACAAA TGGGACTTGC
CTTTAAGGGT GCGGGATGTA CACCTCAATG GTCGGTGTTT ACCCTGAACG

26751 GGCTGGAGCT GCCCAAGACT ACTCAACCCG AATAAACTAC ATGAGCGCGG
CCGACCTCGA CGGGTTCTGA TGAGTTGGGC TTATTTGATG TACTCGCGCC

26801 GACCCACAT GATATCCCGG GTCAACGGAA TACGCGCCCA CCGAAACCGA
CTGGGGTGTA CTATAGGGCC CAGTTGCCTT ATGCGCGGGT GGCTTTGGCT

26851 ATTCTCCTGG AACAGGCGGC TATTACCACC ACACCTCGTA ATAACCTTAA
TAAGAGGACC TTGTCCGCCG ATAATGGTGG TGTGGAGCAT TATTGGAATT

26901 TCCCCGTAGT TGGCCCGCTG CCCTGGTGTA CCAGGAAAGT CCCGCTCCCA
AGGGGCATCA ACCGGGCGAC GGGACCACAT GGTCTTTCA GGGCGAGGGT

26951 CCACTGTGGT ACTTCCAGA GACGCCCAGG CCGAAGTTCA GATGACTAAC
GGTGACACCA TGAAGGGTCT CTGCGGGTCC GGCTTCAAGT CTA CTGATTG

27001 TCAGGGGCGC AGCTTGCGGG CGGCTTTTCGT CACAGGGTGC GGTGCGCCCG
AGTCCCCGCG TCGAACGCC GCGGAAAGCA GTGTCCACG CCAGCGGGCC

27051 GCAGGGTATA ACTCACCTGA CAATCAGAGG GCGAGGTATT CAGCTCAACG
CGTCCCATAT TGAGTGGA CTGTTAGTCTCC CGCTCCATAA GTCGAGTTGC

27101 ACGAGTCGGT GAGCTCCTCG CTTGGTCTCC GTCCGGACGG GACATTTTCAG
TGCTCAGCCA CTCGAGGAGC GAACCAGAGG CAGGCCTGCC CTGTAAAGTC

FIG.9A-32

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27151 ATCGGCGGCG CCGGCCGCTC TTCATTCACG CCTCGTCAGG CAATCCTAAC
TAGCCGCCGC GGCCGGCGAG AAGTAAGTGC GGAGCAGTCC GTTAGGATTG

27201 TCTGCAGACC TCGTCTCTG AGCCGCGCTC TGGAGGCATT GGAACCTCTGC
AGACGTCTGG AGCAGGAGAC TCGGCGCGAG ACCTCCGTAA CCTTGAGACG

27251 AATTTATTGA GGAGTTTGTG CCATCGGTCT ACTTTAACCC CTTCTCGGGA
TTAAATAACT CCTCAAACAC GGTAGCCAGA TGAAATTGGG GAAGAGCCCT

27301 CCTCCCGGCC ACTATCCGGA TCAATTTATT CCTAACTTTG ACGCGGTAAA
GGAGGGCCGG TGATAGGCCT AGTTAAATAA GGATTGAAAC TGCGCCATTT

27351 GGACTCGGCG GACGGCTACG ACTGAATGTT AAGTGGAGAG GCAGAGCAAC
CCTGAGCCGC CTGCCGATGC TGACTTACAA TTCACCTCTC CGTCTCGTTG

27401 TGGCCTGAA ACACCTGGTC CACTGTCGCC GCCACAAGTG CTTTGCCCGC
ACGCGGACTT TGTGGACCAG GTGACAGCGG CGGTGTTTAC GAAACGGGCG

27451 GACTCCGGTG AGTTTTGCTA CTTTGAATTG CCCGAGGATC ATATCGAGGG
CTGAGGCCAC TCAAAACGAT GAAACTTAAC GGGCTCCTAG TATAGCTCCC

27501 CCCGGCGCAC GGCCTCCGGC TTACCGCCCA GGGAGAGCTT GCCCGTAGCC
GGGCCGCGTG CCGCAGGCCG AATGGCGGGT CCCTCTCGAA CGGGCATCGG

27551 TGATTCGGGA GTTTACCCAG CGCCCCCTGC TAGTTGAGCG GGACAGGGGA
ACTAAGCCCT CAAATGGGTC GCGGGGGACG ATCAACTCGC CCTGTCCCCT

27601 CCCTGTGTTT TCACTGTGAT TTGCAACTGT CCTAACCCTG GATTACATCA
GGGACACAAG AGTGACACTA AACGTTGACA GGATTGGGAC CTAATGTAGT

27651 AGATCTTTGT TGCCATCTCT GTGCTGAGTA TAATAAATAC AGAAATTAAC
TCTAGAAACA ACGGTAGAGA CACGACTCAT ATTATTTATG TCTTTAATTT

27701 ATATACTGGG GCTCCTATCG CCATCCTGTA AACGCCACCG TCTTCACCCG
TATATGACCC CGAGGATAGC GGTAGGACAT TTGCGGTGGC AGAAGTGGGC

27751 CCCAAGCAAA CCAAGGCGAA CCTTACCTGG TACTTTTAAC ATCTCTCCCT
GGGTTTCGTTT GGTTCCGCTT GGAATGGACC ATGAAAATTG TAGAGAGGGA

27801 CTGTGATTTA CAACAGTTTC AACCCAGACG GAGTGAGTCT ACGAGAGAAC
GACACTAAAT GTTGTCAAAG TTGGGTCTGC CTCACTCAGA TGCTCTCTTG

27851 CTCTCCGAGC TCAGCTACTC CATCAGAAAA AACACCACCC TCCTTACCTG
GAGAGGCTCG AGTCGATGAG GTAGTCTTTT TTGTGGTGGG AGGAATGGAC

27901 CCGGGAACGT ACGAGTGCCT CACCGGCCGC TGCACCACAC CTACCGCCTG
GGCCCTTGCA TGCTCACGCA GTGGCCGGCG ACGTGGTGTG GATGGCGGAC

27951 ACCGTAAACC AGACTTTTTT CGGACAGACC TCAATAACTC TGTTTACCAG
TGGCATTG TCTGAAAAAG GCCTGTCTGG AGTTATTGAG ACAAATGGTC

FIG.9A-33

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28001 AACAGGAGGT GAGCTTAGAA AACCTTAGG GTATTAGGCC AAAGGCGCAG
TTGTCCTCCA CTCGAATCTT TTGGGAATCC CATAATCCGG TTCCGCGCTC

28051 CTA CTGTGGG GTTTATGAAC AATTCAAGCA ACTCTACGGG CTATTCTAAT
GATGACACCC CAAATACTTG TTAAGTTCGT TGAGATGCCC GATAAGATTA

28101 TCAGGTTTCT CTAGAATCGG GGTTGGGGTT ATTCTCTGTC TTGTGATTCT
AGTCCAAAGA GATCTTAGCC CCAACCCCAA TAAGAGACAG AACACTAAGA

28151 CTTTATTCTT ATACTAACGC TTCTCTGCCT AAGGCTCGCC GCCTGCTGTG
GAAATAAGAA TATGATTGCG AAGAGACGGA TTCCGAGCGG CGGACGACAC

28201 TGCACATTTG CATTTATTGT CAGCTTTTTA AACGCTGGGG TCGCCACCCA
ACGTGTAAAC GTAAATAACA GTCGAAAAAT TTGCGACCCC AGCGGTGGGT

28251 AGATGATTAG GTACATAATC CTAGGTTTAC TCACCCTTGC GTCAGCCCAC
TCTACTAATC CATGTATTAG GATCCAAATG AGTGGAACG CAGTCGGGTG

28301 GGTACCACCC AAAAGGTGGA TTTTAAGGAG CCAGCCTGTA ATGTTACATT
CCATGGTGGG TTTCCACCT AAAATTCCTC GGTGCGACAT TACAATGTAA

28351 CGCAGCTGAA GCTAATGAGT GCACCACTCT TATAAAATGC ACCACAGAAC
GCGTCGACTT CGATTACTCA CGTGGTGAGA ATATTTTACG TGGTGTCTTG

28401 ATGAAAAGCT GCTTATTCGC CACAAAAACA AAATTGGCAA GTATGCTGTT
TACTTTTCGA CGAATAAGCG GTGTTTTTGT TTTAACCGTT CATACGACAA

28451 TATGCTATTT GGCAGCCAGG TGACACTACA GAGTATAATG TTACAGTTTT
ATACGATAAA CCGTCGGTCC ACTGTGATGT CTCATATTAC AATGTCAAAA

28501 CCAGGGTAAA AGTCATAAAA CTTTTATGTA TACTTTTCCA TTTTATGAAA
GGTCCCATTT TCAGTATTTT GAAAATACAT ATGAAAAGGT AAAATACTTT

28551 TGTGCGACAT TACCATGTAC ATGAGCAAAC AGTATAAGTT GTGGCCCCCA
ACACGCTGTA ATGGTACATG TACTCGTTTG TCATATTCAA CACCGGGGGT

28601 CAAAATTGTG TGGAAAACAC TGGCACTTTC TGCTGCACTG CTATGCTAAT
GTTTTAACAC ACCTTTTGTG ACCGTGAAAG ACGACGTGAC GATACGATTA

28651 TACAGTGCTC GCTTTGGTCT GTACCCTACT CTATATTAAA TACAAAAGCA
ATGTCACGAG CGAAACCAGA CATGGGATGA GATATAATTT ATGTTTTCGT

28701 GACGCAGCTT TATTGAGGAA AAGAAAATGC CTTAATTTAC TAAGTTACAA
CTGCGTCGAA ATAACCTCTT TTCTTTTACG GAATTAAATG ATTCAATGTT

28751 AGCTAATGTC ACCACTAACT GCTTTACTCG CTGCTTGCAA AACAAATTCA
TCGATTACAG TGGTGATTGA CGAAATGAGC GACGAACGTT TTGTTTAAGT

28801 AAAAGTTAGC ATTATAATTA GAATAGGATT TAAACCCCCC GGTCATTTCC
TTTTCAATCG TAATATTAAT CTTATCCTAA ATTTGGGGGG CCAGTAAAGG

FIG.9A-34

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28851 TGCTCAATAC CATTCCCCTG AACCAATTGAC TCTATGTGGG ATATGCTCCA
ACGAGTTATG GTAAGGGGAC TTGTTAACTG AGATACACCC TATACGAGGT

28901 GCGCTACAAC CTTGAAGTCA GGCTTCCTGG ATGTCAGCAT CTGACTTTGG
CGCGATGTTG GAACTTCAGT CCGAAGGACC TACAGTCGTA GACTGAAACC

28951 CCAGCACCTG TCCCGCGGAT TTGTTCCAGT CCAACTACAG CGACCCACCC
GGTCGTGGAC AGGGCGCCTA AACAAAGGTCA GGTTGATGTC GCTGGGTGGG

29001 TAACAGAGAT GACCAACACA ACCAACGCGG CCGCCGCTAC CGGACTTACA
ATTGTCTCTA CTGGTTGTGT TGGTTGCGCC GCGGCGGATG GCCTGAATGT

29051 TCTACCACAA ATACACCCCA AGTTTCTGCC TTTGTCAATA ACTGGGATAA
AGATGGTGTT TATGTGGGGT TCAAAGACGG AAACAGTTAT TGACCCTATT

29101 CTTGGGCATG TGGTGGTTCT CCATAGCGCT TATGTTTGTA TGCCTTATTA
GAACCCGTAC ACCACCAAGA GGTATCGCGA ATACAAACAT ACGGAATAAT

29151 TTATGTGGCT CATCTGCTGC CTAAAGCGCA AACGCGCCCG ACCACCCATC
AATACACCGA GTAGACGACG GATTTCGCGT TTGCGCGGGC TGGTGGGTAG

29201 TATAGTCCCA TCATTGTGCT ACACCCAAAC AATGATGGAA TCCATAGATT
ATATCAGGGT AGTAACACGA TGTGGGTTTG TTAACCTT AGGTATCTAA

29251 GGACGGACTG AAACACATGT TCTTTTCTCT TACAGTATGA TTAAATGAGA
CCTGCCTGAC TTTGTGTACA AGAAAAGAGA ATGTCATACT AATTTACTCT

29301 CATGATTCCT CGAGTTTTTA TATTACTGAC CTTTGTGCG CTTTTTTGTG
GTACTAAGGA GCTCAAAAAT ATAATGACTG GGAACAACGC GAAAAACAC

29351 CGTGCTCCAC ATTGGCTGCG GTTTCTCACA TCGAAGTAGA CTGCATTCCA
GCACGAGGTG TAACCGACGC CAAAGAGTGT AGCTTCATCT GACGTAAGGT

29401 GCCTTCACAG TCTATTTGCT TTACGGATTT GTCACCCTCA CGCTCATCTG
CGGAAGTGTC AGATAAACGA AATGCCTAAA CAGTGGGAGT GCGAGTAGAC

29451 CAGCCTCATC ACTGTGGTCA TCGCCTTTAT CCAGTGCATT GACTGGGTCT
GTCGGAGTAG TGACACCAGT AGCGGAAATA GGTCACGTAA CTGACCCAGA

29501 GTGTGCGCTT TGCATATCTC AGACACCATC CCCAGTACAG GGACAGGACT
CACACGCGAA ACGTATAGAG TCTGTGGTAG GGGTCATGTC CCTGTCCTGA

29551 ATAGCTGAGC TTCTTAGAAT TCTTTAATTA TGAAATTTAC TGTGACTTTT
TATCGACTCG AAGAATCTTA AGAAATTAAT ACTTTAAATG AACTGAAAA

29601 CTGCTGATTA TTTGCACCTT ATCTGCGTTT TGTTCCCCGA CCTCCAAGCC
GACGACTAAT AAACGTGGGA TAGACGCAA ACAAGGGGCT GGAGGTTTCG

29651 TCAAAGACAT ATATCATGCA GATTCACTCG TATATGGAAT ATTCCAAGTT
AGTTTCTGTA TATAGTACGT CTAAGTGAGC ATATACCTTA TAAGGTTCAA

FIG.9A-35

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29701 GCTACAATGA AAAAAGCGAT CTTTCCGAAG CCTGGTTATA TGCAATCATC
 CGATGTTACT TTTTTCGCTA GAAAGGCTTC GGACCAATAT ACGTTAGTAG
 29751 TCTGTTATGG TGTTCCTGCAG TACCATCTTA GCCCTAGCTA TATATCCCTA
 AGACAATACC ACAAGACGTC ATGGTAGAAT CGGGATCGAT ATATAGGGAT
 29801 CCTTGACATT GGCTGGAACG CAATAGATGC CATGAACCAC CCAACTTTCC
 GGAACGTAA CCGACCTTGC GTTATCTACG GTACTTGGTG GGTTGAAAGG
 29851 CCGCGCCCGC TATGCTTCCA CTGCAACAAG TTGTTGCCGG CGGCTTTGTC
 GGCGCGGGCG ATACGAAGGT GACGTTGTTC AACACGGCC GCCGAAACAG
 29901 CCAGCCAATC AGCCTCGCCC ACCTTCTCCC ACCCCCACTG AAATCAGCTA
 GGTGCGTTAG TCGGAGCGGG TGGAAAGAGG TGGGGGTGAC TTTAGTCGAT
 29951 CTTTAATCTA ACAGGAGGAG ATGACTGACA CCCTAGATCT AGAAATGGAC
 GAAATTAGAT TGTCTCCTC TACTGACTGT GGGATCTAGA TCTTTACCTG
 30001 GGAATTATTA CAGAGCAGCG CCTGCTAGAA AGACGCAGGG CAGCGGCCGA
 CCTTAATAAT GTCTCGTCGC GGACGATCTT TCTGCGTCCC GTCGCCGGCT
 30051 GCAACAGCGC ATGAATCAAG AGCTCCAAGA CATGGTTAAC TTGCACCACT
 CGTTGTCGCG TACTTAGTTC TCGAGGTTCT GTACCAATTG AACGTGGTCA
 30101 GCAAAAGGGG TATCTTTTGT CTCGTAAAGC AGGCCAAAGT CACCTACGAC
 CGTTTTCCCC ATAGAAAACA GAGCATTTCTG TCCGGTTTCA GTGGATGCTG
 30151 AGTAATACCA CCGGACACCG CTTAGCTAC AAGTTGCCAA CCAAGCGTCA
 TCATTATGGT GGCCTGTGGC GGAATCGATG TTCAACGGTT GGTTCGCAGT
 30201 GAAATTGGTG GTCATGGTGG GAGAAAAGCC CATTACCATA ACTCAGCACT
 CTTTAACCAC CAGTACCACC CTCTTTTTCGG GTAATGGTAT TGAGTCGTGA
 30251 CGGTAGAAAC CGAAGGCTGC ATTCACTCAC CTTGTCAAGG ACCTGAGGAT
 GCCATCTTTG GCTTCCGACG TAAGTGAGTG GAACAGTTCC TGGACTCCTA
 30301 CTCTGCACCC TTATTAAGAC CCTGTGCGGT CTCAAAGATC TTATTCCCTT
 GAGACGTGGG AATAATTCTG GGACACGCCA GAGTTTCTAG AATAAGGGAA
 30351 TAACTAATAA AAAAAAATAA TAAAGCATCA CTTACTTAAA ATCAGTTAGC
 ATTGATTATT TTTTTTTATT ATTTCTGAGT GAATGAATT TAGTCAATCG
 30401 AAATTTCTGT CCAGTTTATT CAGCAGCACC TCCTTGCCCT CCTCCCAGCT
 TTAAAGACA GGTCAAATAA GTCGTCGTGG AGGAACGGGA GGAGGGTCA
 30451 CTGGTATTGC AGCTTCCTCC TGGCTGCAAA CTTTCTCCAC AATCTAAATG
 GACCATAACG TCGAAGGAGG ACCGACGTTT GAAAGAGGTG TTAGATTTAC
 30501 GAATGTCAGT TTCCTCCTGT TCCTGTCCAT CCGCACCCAC TATCTTCATG
 CTTACAGTCA AAGGAGGACA AGGACAGGTA GGCCTGGGTG ATAGAAGTAC

FIG.9A-36

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30551 TTGTTGCAGA TGAAGCGCGC AAGACCGTCT GAAGATACCT TCAACCCCGT
AACAACGTCT ACTTCGCGCG TTCTGGCAGA CTTCTATGGA AGTTGGGGCA

30601 GTATCCATAT GACACGGAAA CCGGTCCTCC AACTGTGCCT TTTCTTACTC
CATAGGTATA CTGTGCCTTT GGCCAGGAGG TTGACACGGA AAAGAATGAG

30651 CTCCCTTTGT ATCCCCAAT GGGTTTCAAG AGAGTCCCCC TGGGGTACTC
GAGGGAAACA TAGGGGGTTA CCCAAAGTTC TCTCAGGGGG ACCCCATGAG

30701 TCTTTGCGCC TATCCGAACC TCTAGTTACC TCCAATGGCA TGCTTGCGCT
AGAAACGCGG ATAGGCTTGG AGATCAATGG AGGTTACCGT ACGAACGCGA

30751 CAAAATGGGC AACGGCCTCT CTCTGGACGA GGCCGGCAAC CTTACCTCCC
GTTTTACCCG TTGCCGGAGA GAGACCTGCT CCGGCCGTTG GAATGGAGGG

30801 AAAATGTAAC CACTGTGAGC CCACCTCTCA AAAAAACCAA GTCAAACATA
TTTTACATTG GTGACACTCG GGTGGAGAGT TTTTTTGGTT CAGTTTGTAT

30851 AACCTGGAAG TATCTGCACC CCTCACAGTT ACCTCAGAAG CCCTAACTGT
TTGGACCTTT ATAGACGTGG GGAGTGTCAA TGGAGTCTTC GGGATTGACA

30901 GGCTGCCGCC GCACCTCTAA TGGTCGCGGG CAACACACTC ACCATGCAAT
CCGACGGCGG CGTGGAGATT ACCAGCGCCC GTTGTGTGAG TGGTACGTTA

30951 CACAGGCCCC GCTAACCGTG CACGACTCCA AACTTAGCAT TGCCACCCAA
GTGTCCGGGG CGATTGGCAC GTGCTGAGGT TTGAATCGTA ACGGTGGGTT

31001 GGACCCCTCA CAGTGTGAGA AGGAAAGCTA GCCCTGCAAA CATCAGGCCC
CCTGGGGAGT GTCACAGTCT TCCTTTCGAT CGGGACGTTT GTAGTCCGGG

31051 CCTCACCACC ACCGATAGCA GTACCCCTTAC TATCACTGCC TCACCCCTT
GGAGTGGTGG TGGCTATCGT CATGGGAATG ATAGTGACGG AGTGGGGGAA

31101 TAACTACTGC CACTGGTAGC TTGGGCATTG ACTTGAAAGA GCCCATTTAT
ATTGATGACG GTGACCATCG AACCCGTAAC TGAACCTTCT CGGGTAAATA

31151 ACACAAAATG GAAAAGTAGG ACTAAAGTAC GGGGCTCCTT TGCATGTAAC
TGTGTTTTAC CTTTTGATCC TGATTTTCATG CCCCAGAGGAA ACGTACATTG

31201 AGACGACCTA AACACTTTGA CCGTAGCAAC TGGTCCAGGT GTGACTATTA
TCTGCTGGAT TTGTGAAACT GGCATCGTTG ACCAGGTCCA CACTGATAAT

31251 ATAATACTTC CTTGCAAACCT AAAGTTACTG GAGCCTTGGG TTTTGATTCA
TATTATGAAG GAACGTTTGA TTTCAATGAC CTCGGAACCC AAAACTAAGT

31301 CAAGGCAATA TGCAACTTAA TGTAGCAGGA GGAATAAGGA TTGATTCTCA
GTTCCGTTAT ACGTTGAATT ACATCGTCCT CCTGATTCTT AACTAAGAGT

31351 AAACAGACGC CTTATACTTG ATGTTAGTTA TCCGTTTGAT GCTCAAAACC
TTTGTCTGCG GAATATGAAC TACAATCAAT AGGCAAACTA CGAGTTTTGG

FIG.9A-37

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31401 AACTAAATCT AAGACTAGGA CAGGGCCCTC TTTTATAAA CTCAGCCCAC
TTGATTTAGA TTCTGATCCT GTCCCGGGAG AAAAATATTT GAGTCGGGTG

31451 AACTTGGATA TTAATAACAA CAAAGGCCTT TACTTGTTTA CAGCTTCAAA
TTGAACCTAT AATTGATGTT GTTCCGGAA ATGAACAAAT GTCGAAGTTT

31501 CAATTCCAAA AAGCTTGAGG TTAACCTAAG CACTGCCAAG GGGTTGATGT
GTTAAGGTTT TTCGAACTCC AATTGGATTC GTGACGGTTC CCCAACTACA

31551 TTGACGCTAC AGCCATAGCC ATTAATGCAG GAGATGGGCT TGAATTTGGT
AACTGCGATG TCGGTATCGG TAATTACGTC CTCTACCCGA ACTTAAACCA

31601 TCACCTAATG CACCAAACAC AAATCCCCTC AAAACAAAAA TTGGCCATGG
AGTGGATTAC GTGGTTTGTG TTTAGGGGAG TTTTGTTTTT AACCGGTACC

31651 CCTAGAATTT GATTCAAACA AGGCTATGGT TCCTAAACTA GGAAGTGGCC
GGATCTTAAA CTAAGTTTGT TCCGATACCA AGGATTTGAT CCTTGACCGG

31701 TTAGTTTTGA CAGCACAGGT GCCATTACAG TAGGAAACAA AAATAATGAT
AATCAAACT GTCGTGTCCA CGGTAATGTC ATCCTTTGTT TTTATTACTA

31751 AAGCTAACTT TGTGGACCAC ACCAGCTCCA TCTCCTAACT GTAGACTAAA
TTCGATTGAA ACACCTGGTG TGGTCGAGGT AGAGGATTGA CATCTGATTT

31801 TGCAGAGAAA GATGCTAAAC TCACTTTGGT CTTAACAAAA TGTGGCAGTC
ACGTCTCTTT CTACGATTTG AGTGAAACCA GAATTGTTTT ACACCGTCAG

31851 AAATACTTGC TACAGTTTCA GTTTTGGCTG TTAAAGGCAG TTTGGCTCCA
TTTATGAACG ATGTCAAAGT CAAAACCGAC AATTTCCGTC AAACCGAGGT

31901 ATATCTGGAA CAGTTCAAAG TGCTCATCTT ATTATAAGAT TTGACGAAAA
TATAGACCTT GTCAAGTTTC ACGAGTAGAA TAATATTCTA AACTGCTTTT

31951 TGGAGTGCTA CTAAACAATT CCTTCCTGGA CCCAGAATAT TGGAACTTTA
ACCTCACGAT GATTTGTTAA GGAAGGACCT GGGTCTTATA ACCTGAAAT

32001 GAAATGGAGA TCTTACTGAA GGCACAGCCT ATACAAACGC TGTTGGATTT
CTTTACCTCT AGAATGACTT CCGTGTGCGA TATGTTTGCG ACAACCTAAA

32051 ATGCCTAACC TATCAGCTTA TCCAAAATCT CACGGTAAAA CTGCCAAAAG
TACGGATTGG ATAGTCGAAT AGGTTTTAGA GTGCCATTTT GACGGTTTTT

32101 TAACATTGTC AGTCAAGTTT ACTTAAACGG AGACAAAACCT AAACCTGTAA
ATTGTAACAG TCAGTTCAAA TGAATTTGCC TCTGTTTTGA TTTGGACATT

32151 CACTAACCAT TACACTAAAC GGTACACAGG AAACAGGAGA CACAACCTCA
GTGATTGGTA ATGTGATTTG CCATGTGTCC TTTGTCCTCT GTGTTGAGGT

32201 AGTGCATACT CTATGTCATT TTCATGGGAC TGGTCTGGCC ACAACTACAT
TCACGTATGA GATACAGTAA AAGTACCCTG ACCAGACCGG TGTTGATGTA

FIG.9A-38

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32251	TAATGAAATA	TTTGCCACAT	CCTCTTACAC	TTTTTCATAC	ATTGCCCAAG
	ATTACTTTTAT	AAACGGTGTA	GGAGAATGTG	AAAAAGTATG	TAACGGGTTC
32301	AATAAAGAAT	CGTTTGTGTT	ATGTTTCAAC	GTGTTTATTT	TTCAATTGCA
	TTATTTCTTA	GCAAACACAA	TACAAAGTTG	CACAAATAAA	AAGTTAACGT
32351	GAAAATTTCA	AGTCATTTTT	CATTCAGTAG	TATAGCCCCA	CCACCACATA
	CTTTTAAAGT	TCAGTAAAAA	GTAAGTCATC	ATATCGGGGT	GGTGGTGTAT
32401	GCTTATACAG	ATCACCGTAC	CTTAATCAAA	CTCACAGAAC	CCTAGTATTC
	CGAATATGTC	TAGTGGCATG	GAATTAGTTT	GAGTGTCTTG	GGATCATAAG
32451	AACCTGCCAC	CTCCCTCCCA	ACACACAGAG	TACACAGTCC	TTTCTCCCCG
	TTGGACGGTG	GAGGGAGGGT	TGTGTGTCTC	ATGTGTCAGG	AAAGAGGGGC
32501	GCTGGCCTTA	AAAAGCATCA	TATCATGGGT	AACAGACATA	TTCTTAGGTG
	CGACCGGAAT	TTTTCGTAGT	ATAGTACCCA	TTGTCTGTAT	AAGAATCCAC
32551	TTATATTCCA	CACGGTTTCC	TGTCGAGCCA	AACGCTCATC	AGTGATATTA
	AATATAAGGT	GTGCCAAAGG	ACAGCTCGGT	TTGCGAGTAG	TCACTATAAT
32601	ATAAACTCCC	CGGGCAGCTC	ACTTAAGTTC	ATGTCGCTGT	CCAGCTGCTG
	TATTTGAGGG	GCCCGTCGAG	TGAATTCAAG	TACAGCGACA	GGTCGACGAC
32651	AGCCACAGGC	TGCTGTCCAA	CTTGCGGTTG	CTTAACGGGC	GGCGAAGGAG
	TCGGTGTCCG	ACGACAGGTT	GAACGCCAAC	GAATTGCCCG	CCGCTTCCTC
32701	AAGTCCACGC	CTACATGGGG	GTAGAGTCAT	AATCGTGCAT	CAGGATAGGG
	TTCAGGTGCG	GATGTACCCC	CATCTCAGTA	TTAGCACGTA	GTCCTATCCC
32751	CGGTGGTGCT	GCAGCAGCGC	GCGAATAAAC	TGCTGCCGCC	GCCGCTCCGT
	GCCACCACGA	CGTCGTGCGG	CGCTTATTTG	ACGACGGCGG	CGGCGAGGCA
32801	CCTGCAGGAA	TACAACATGG	CAGTGGTCTC	CTCAGCGATG	ATTGCGACCG
	GGACGTCCTT	ATGTTGTACC	GTCACCAGAG	GAGTCGCTAC	TAAGCGTGGC
32851	CCCGCAGCAT	AAGGCGCCTT	GTCCTCCGGG	CACAGCAGCG	CACCCTGATC
	GGGCGTCGTA	TTCCGCGGAA	CAGGAGGCC	GTGTCGTGCG	GTGGGACTAG
32901	TCACTTAAAT	CAGCACAGTA	ACTGCAGCAC	AGCACCACAA	TATTGTTCAA
	AGTGAATTTA	GTCGTGTCAT	TGACGTCGTG	TCGTGGTGTT	ATAACAAGTT
32951	AATCCACAG	TGCAAGGCGC	TGTATCCAAA	GCTCATGGCG	GGGACCACAG
	TTAGGGTGTC	ACGTTCCGCG	ACATAGGTTT	CGAGTACCGC	CCCTGGTGTC
33001	AACCCACGTG	GCCATCATAC	CACAAGCGCA	GGTAGATTAA	GTGGCGACCC
	TTGGGTGCAC	CGGTAGTATG	GTGTTGCGGT	CCATCTAATT	CACCGCTGGG
33051	CTCATAAACA	CGCTGGACAT	AAACATTACC	TCTTTTGGCA	TGTTGTAATT
	GAGTATTTGT	GCGACCTGTA	TTTGTAATGG	AGAAAACCGT	ACAACATTAA

FIG.9A-39

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33101 CACCACCTCC CGGTACCATA TAAACCTCTG ATTAACATG GCGCCATCCA
 GTGGTGGAGG GCCATGGTAT ATTTGGAGAC TAATTTGTAC CGCGGTAGGT

33151 CCACCATCCT AAACCAGCTG GCCAAAACCT GCCCGCCGGC TATACACTGC
 GGTGGTAGGA TTTGGTCGAC CGGTTTTGGA CGGGCGGCCG ATATGTGACG

33201 AGGGAACCGG GACTGGAACA ATGACAGTGG AGAGCCCAGG ACTCGTAACC
 TCCCTTGGCC CTGACCTTGT TACTGTCACC TCTCGGGTCC TGAGCATTGG

33251 ATGGATCATC ATGCTCGTCA TGATATCAAT GTTGGCACAA CACAGGCACA
 TACCTAGTAG TACGAGCAGT ACTATAGTTA CAACCGTGTT GTGTCCGTGT

33301 CGTGCATACA CTTCTCAGG ATTACAAGCT CCTCCCGCGT TAGAACCATA
 GCACGTATGT GAAGGAGTCC TAATGTTTCA GGAGGGCGCA ATCTTGGTAT

33351 TCCCAGGGAA CAACCCATTC CTGAATCAGC GTAAATCCCA CACTGCAGGG
 AGGGTCCCTT GTTGGGTAAG GACTTAGTCG CATTTAGGGT GTGACGTCCC

33401 AAGACCTCGC ACGTAACTCA CGTTGTGCAT TGTCAAAGTG TTACATTTCGG
 TTCTGGAGCG TGCATTGAGT GCAACACGTA ACAGTTTCAC AATGTAAGCC

33451 GCAGCAGCGG ATGATCCTCC AGTATGGTAG CGCGGGTTTC TGTCTCAAAA
 CGTCGTCGCC TACTAGGAGG TCATACCATC GCGCCCAAAG ACAGAGTTTT

33501 GGAGGTAGAC GATCCCTACT GTACGGAGTG CGCCGAGACA ACCGAGATCG
 CCTCCATCTG CTAGGGATGA CATGCCTCAC GCGGCTCTGT TGGCTCTAGC

33551 TGTTGGTCGT AGTGTCATGC CAAATGGAAC GCCGGACGTA GTCATATTTTC
 ACAACCAGCA TCACAGTACG GTTTACCTTG CGGCCTGCAT CAGTATAAAG

33601 CTGAAGCAAA ACCAGGTGCG GGC GTGACAA ACAGATCTGC GTCTCCGGTC
 GACTTCGTTT TGGTCCACGC CCGCACTGTT TGTCTAGACG CAGAGGCCAG

33651 TCGCCGCTTA GATCGCTCTG TG TAGTAGTT GTAGTATATC CACTCTCTCA
 AGCGGCGAAT CTAGCGAGAC ACATCATCAA CATCATATAG GTGAGAGAGT

33701 AAGCATCCAG GCGCCCCCTG GCTTCGGGTT CTATGTAAAC TCCTTCATGC
 TTCGTAGGTC CGCGGGGGAC CGAAGCCCAA GATACATTG AGGAAGTACG

33751 GCCGCTGCCC TGATAACATC CACCACCGCA GAATAAGCCA CACCCAGCCA
 CGGCGACGGG ACTATTGTAG GTGGTGGCGT CTTATTCGGT GTGGGTCGGT

33801 ACCTACACAT TCGTTCTGCG AGTCACACAC GGGAGGAGCG GGAAGAGCTG
 TGGATGTGTA AGCAAGACGC TCAGTGTGTG CCCTCCTCGC CCTTCTCGAC

33851 GAAGAACCAT GTTTTTTTTT TTATTCCAAA AGATTATCCA AAACCTCAAA
 CTTCTTGGA CAAAAAATAA AATAAGGTTT TCTAATAGGT TTTGGAGTTT

33901 ATGAAGATCT ATTAAGTGAA CGCGCTCCCC TCCGGTGGCG TGGTCAAAC
 TACTTCTAGA TAATTCACCT GCGCGAGGGG AGGCCACCGC ACCAGTTTGA

FIG.9A-40

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33951	CTACAGCCAA	AGAACAGATA	ATGGCATTG	TAAGATGTTG	CACAATGGCT
	GATGTCGGTT	TCTTGTCTAT	TACCGTAAAC	ATTCTACAAC	GTGTTACCGA
34001	TCCAAAAGGC	AAACGGCCCT	CACGTCCAAG	TGGACGTAAA	GGCTAAACCC
	AGGTTTTCCG	TTTGCCGGGA	GTGCAGGTTT	ACCTGCATTT	CCGATTTGGG
34051	TTCAGGGTGA	ATCTCCTCTA	TAAACATTCC	AGCACCTTCA	ACCATGCCCA
	AAGTCCCACT	TAGAGGAGAT	ATTTGTAAGG	TCGTGGAAGT	TGGTACGGGT
34101	AATAATTCTC	ATCTCGCCAC	CTTCTCAATA	TATCTCTAAG	CAAATCCCGA
	TTATTAAGAG	TAGAGCGGTG	GAAGAGTTAT	ATAGAGATTC	GTTTAGGGCT
34151	ATATTAAGTC	CGGCCATTGT	AAAAATCTGC	TCCAGAGCGC	CCTCCACCTT
	TATAATTCAG	GCCGGTAACA	TTTTTAGACG	AGGTCTCGCG	GGAGGTGGAA
34201	CAGCCTCAAG	CAGCGAATCA	TGATTGCAAA	AATTCAGGTT	CCTCACAGAC
	GTCGGAGTTC	GTCGCTTAGT	ACTAACGTTT	TTAAGTCCAA	GGAGTGTCTG
34251	CTGTATAAGA	TTCAAAAGCG	GAACATTAAC	AAAAATACCG	CGATCCCGTA
	GACATATTCT	AAGTTTTTCG	CTTGTAATTG	TTTTTATGGC	GCTAGGGCAT
34301	GGTCCCTTCG	CAGGGCCAGC	TGAACATAAT	CGTGCAGGTC	TGCACGGACC
	CCAGGGAAGC	GTCCCGGTG	ACTTGATTA	GCACGTCCAG	ACGTGCCTGG
34351	AGCGCGGCCA	CTTCCCCGCC	AGGAACCATG	ACAAAAGAAC	CCCACTGAT
	TCGCGCCGGT	GAAGGGGCGG	TCCTTGGTAC	TGTTTTCTTG	GGTGTGACTA
34401	TATGACACGC	ATACTCGGAG	CTATGCTAAC	CAGCGTAGCC	CCGATGTAAG
	ATACTGTGCG	TATGAGCCTC	GATACGATTG	GTCGCATCGG	GGCTACATTC
34451	CTTGTTGCAT	GGGCGGCGAT	ATAAAATGCA	AGGTGCTGCT	CAAAAAATCA
	GAACAACGTA	CCC GCCGCTA	TATTTTACGT	TCCACGACGA	GTTTTTTAGT
34501	GGCAAAGCCT	CGCGCAAAAA	AGAAAGCACA	TCGTAGTCAT	GCTCATGCAG
	CCGTTTCGGA	GCGCGTTTTT	TCTTTCGTGT	AGCATCAGTA	CGAGTACGTC
34551	ATAAAGGCAG	GTAAGCTCCG	GAACCACCAC	AGAAAAAGAC	ACCATTTTTTC
	TATTTCCGTC	CATTGAGGCG	CTTGGTGGTG	TCTTTTTCTG	TGGTAAAAAG
34601	TCTCAAACAT	GTCTGCGGGT	TTCTGCATAA	ACACAAAATA	AAATAACAAA
	AGAGTTTGTA	CAGACGCCCC	AAGACGTATT	TGTGTTTTAT	TTTATTGTTT
34651	AAAACATTTA	AACATTAGAA	GCCTGTCTTA	CAACAGGAAA	AACAACCCTT
	TTTTGTAAAT	TTGTAATCTT	CGGACAGAAT	GTTGTCCTTT	TTGTTGGGAA
34701	ATAAGCATAA	GACGGACTAC	GGCCATGCCG	GCGTGACCGT	AAAAAACTG
	TATTCGTATT	CTGCCTGATG	CCGGTACGGC	CGCACTGGCA	TTTTTTTGAC
34751	GTCACCGTGA	TTAAAAAGCA	CCACCGACAG	CTCCTCGGTC	ATGTCCGGAG
	CAGTGGCACT	AATTTTTTCG	GGTGGCTGTC	GAGGAGCCAG	TACAGGCCTC

FIG. 9A-41

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34801 TCATAATGTA AGACTCGGTA AACACATCAG GTTGATTACAC ATCGGTCAGT
 AGTATTACAT TCTGAGCCAT TTGTGTAGTC CAACTAAGTG TAGCCAGTCA
 34851 GCTAAAAAGC GACCGAAATA GCCCGGGGGA ATACATACCC GCAGGCGTAG
 CGATTTTTTCG CTGGCTTTAT CGGGCCCCCT TATGTATGGG CGTCCGCATC
 34901 AGACAACATT ACAGCCCCCA TAGGAGGTAT AACAAAATTA ATAGGAGAGA
 TCTGTTGTAA TGTCGGGGGT ATCCTCCATA TTGTTTAAAT TATCCTCTCT
 34951 AAAACACATA AACACCTGAA AAACCCTCCT GCCTAGGCAA AATAGCACCC
 TTTTGTGTAT TTGTGGACTT TTTGGGAGGA CGGATCCGTT TTATCGTGGG
 35001 TCCCGCTCCA GAACAACATA CAGCGCTTCC ACAGCGGCAG CCATAACAGT
 AGGGCGAGGT CTTGTTGTAT GTCGCGAAGG TGTCGCCGTC GGTATTGTCA
 35051 CAGCCTTACC AGTAAAAAAG AAAACCTATT AAAAAACAC CACTCGACAC
 GTCGGAATGG TCATTTTTTC TTTTGGATAA TTTTTTGTG GTGAGCTGTG
 35101 GGCACCAGCT CAATCAGTCA CAGTGTAATA AAGGGCCAAG TGCAGAGCGA
 CCGTGGTCGA GTTAGTCAGT GTCACATTTT TTCCCGGTTT ACGTCTCGCT
 35151 GTATATATAG GACTAAAAAA TGACGTAACG GTTAAAGTCC AAAAAAACA
 CATATATATC CTGATTTTTT ACTGCATTGC CAATTTTCAGG TGTTTTTGT
 35201 CCCAGAAAAC CGCACGCGAA CCTACGCCCA GAAACGAAAG CAAAAAACC
 GGGTCTTTTG GCGTGCGCTT GGATGCGGGT CTTTGCTTTC GGTTTTTTGG
 35251 CACAACCTTCC TCAAATCGTC ACTTCCGTTT TCCCACGTTA CGTCACTTCC
 GTGTTGAAGG AGTTTAGCAG TGAAGGCAAA AGGGTGCAAT GCAGTGAAGG
 35301 CATTTTAAGA AAATAACAAT TCCCAACACA TACAAGTTAC TCCGCCCTAA
 GTAAAATTCT TTTGATGTAA AGGGTTGTGT ATGTTCAATG AGGCGGGATT
 35351 AACCTACGTC ACCCGCCCCG TTCCACGCC CCGCGCCACG TCACAAACTC
 TTGGATGCAG TGGGCGGGGC AAGGGTGCGG GCGCGGTGC AGTGTTTGAG
 35401 CACCCCTCA TTATCATATT GGCTTCAATC CAAAATAAGG TATATTATTG
 GTGGGGGAGT AATAGTATAA CCGAAGTTAG GTTTTATTCC ATATAATAAC

PacI

35451 ATGATGTTAA TTAAGAATTC GGATCTGCGA CGCGAGGCTG GATGGCCTTC
 TACTACAATT AATTCTTAAG CCTAGACGCT GCGCTCCGAC CTACCGGAAG
 35501 CCCATTATGA TTCTTCTCGC TTCCGGCGGC ATCGGGATGC CCGCGTTGCA
 GGGTAATACT AAGAAGAGCG AAGGCCGCCG TAGCCCTACG GGCGCAACGT
 35551 GGCCATGCTG TCCAGGCAGG TAGATGACGA CCATCAGGGA CAGCTTCAAG
 CCGGTACGAC AGGTCCGTCC ATCTACTGCT GGTAGTCCCT GTCGAAGTTC

FIG.9A-42

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35601 GCCAGCAAAA GGCCAGGAAC CGTAAAAAGG CCGCGTTGCT GGCGTTTTTC
CGGTCGTTTT CCGGTCCTTG GCATTTTTCC GGCGCAACGA CCGCAAAAAG

35651 CATAGGCTCC GCCCCCTGA CGAGCATCAC AAAAATCGAC GCTCAAGTCA
GTATCCGAGG CGGGGGGACT GCTCGTAGTG TTTTATAGTG CGAGTTTCACT

35701 GAGGTGGCGA AACCCGACAG GACTATAAAG ATACCAGGCG TTTCCCCCTG
CTCCACCGCT TTGGGCTGTC CTGATATTTT TATGGTCCGC AAAGGGGGAC

35751 GAAGCTCCCT CGTGCGCTCT CCTGTTCCGA CCCTGCCGCT TACCGGATAC
CTTCGAGGGA GCACGCGAGA GGACAAGGCT GGGACGGCGA ATGGCCTATG

35801 CTGTCCGCCT TTCTCCCTTC GGAAGCGTG GCGCTTTCTC ATAGCTCACG
GACAGGCGGA AAGAGGGAAG CCCTTCGCAC CGCGAAAGAG TATCGAGTGC

35851 CTGTAGGTAT CTCAGTTCGG TGTAGGTCGT TCGCTCCAAG CTGGGCTGTG
GACATCCATA GAGTCAAGCC ACATCCAGCA AGCGAGGTTT GACCCGACAC

35901 TGCACGAACC CCCCGTTCAG CCCGACCGCT GCGCCTTATC CCGTAACTAT
ACGTGCTTGG GGGGCAAGTC GGGCTGGCGA CGCGGAATAG GCCATTGATA

35951 CGTCTTGAGT CCAACCCGGT AAGACACGAC TTATCGCCAC TGGCAGCAGC
GCAGAACTCA GGTTGGGCCA TTCTGTGCTG AATAGCGGTG ACCGTCGTCTG

36001 CACTGGTAAC AGGATTAGCA GAGCGAGGTA TGTAGGCGGT GCTACAGAGT
GTGACCATTG TCCTAATCGT CTCGCTCCAT ACATCCGCCA CGATGTCTCA

36051 TCTTGAAGTG GTGGCCTAAC TACGGCTACA CTAGAAGGAC AGTATTTGGT
AGAACTTCAC CACCGGATTG ATGCCGATGT GATCTTCTCT TCATAAACCA

36101 ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAGAG TTGGTAGCTC
TAGACGCGAG ACGACTTCGG TCAATGGAAG CCTTTTTCTC AACCATCGAG

36151 TTGATCCGGC AAACAAACCA CCGCTGGTAG CCGTGGTTTT TTTGTTTGCA
AACTAGGCCG TTTGTTTGGT GGCGACCATC GCCACCAAAA AAACAAACGT

36201 AGCAGCAGAT TACGCGCAGA AAAAAAGGAT CTCAAGAAGA TCCTTTGATC
TCGTCGTCTA ATGCGCGTCT TTTTTCCTA GAGTTCTTCT AGGAAACTAG

36251 TTTTCTACGG GGTCTGACGC TCAGTGGAAC GAAAACTCAC GTTAAGGGAT
AAAAGATGCC CCAGACTGCG AGTCACCTTG CTTTTGAGTG CAATTCCTTA

36301 TTTGGTCATG AGATTATCAA AAAGGATCTT CACCTAGATC CTTTTAAATC
AAACCAGTAC TCTAATAGTT TTTCTAGAA GTGGATCTAG GAAAATTTAG

36351 AATCTAAAGT ATATATGAGT AAATTGGTC TGACAGTTAC CAATGCTTAA
TTAGATTTCA TATATACTCA TTTGAACCAG ACTGTCAATG GTTACGAATT

36401 TCAGTGAGGC ACCTATCTCA GCGATCTGTC TATTTCTGTT ATCCATAGTT
AGTCACTCCG TGGATAGAGT CGCTAGACAG ATAAAGCAAG TAGGTATCAA

FIG.9A-43

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36451 GCCTGACTCC CCGTCGTGTA GATAACTACG ATACGGGAGG GCTTACCATC
CGGACTGAGG GGCAGCACAT CTATTGATGC TATGCCCTCC CGAATGGTAG

36501 TGGCCCCAGT GCTGCAATGA TACCGCGAGA CCCACGCTCA CCGGCTCCAG
ACCGGGGTCA CGACGTTACT ATGGCGCTCT GGGTGCGAGT GGCCGAGGTC

36551 ATTTATCAGC AATAAACCAG CCAGCCGGAA GGGCCGAGCG CAGAAGTGGT
TAAATAGTCG TTATTTGGTC GGTGGGCCTT CCCGGCTCGC GTCTTCACCA

36601 CCTGCAACTT TATCCGCCTC CATCCAGTCT ATTAATTGTT GCCGGGAAGC
GGACGTTGAA ATAGGCGGAG GTAGGTCAGA TAATTAACAA CGGCCCTTCG

36651 TAGAGTAAGT AGTTCGCCAG TTAATAGTTT GCGCAACGTT GTTGCCATTG
ATCTCATTCA TCAAGCGGTC AATTATCAAA CGCGTTGCAA CAACGGTAAC

36701 CTACAGGCAT CGTGGTGTCA CGCTCGTCGT TTGGTATGGC TTCATTCCAGC
GATGTCCGTA GCACCACAGT GCGAGCAGCA AACCATACCG AAGTAAGTCG

36751 TCCGGTTCCC AACGATCAAG GCGAGTTACA TGATCCCCCA TGTGTGCAA
AGGCCAAGGG TTGCTAGTTC CGCTCAATGT ACTAGGGGGT ACAACACGTT

36801 AAAAGCGGTT AGCTCCTTCG GTCCTCCGAT CGTTGTCAGA AGTAAGTTGG
TTTTCGCCAA TCGAGGAAGC CAGGAGGCTA GCAACAGTCT TCATTCAACC

36851 CCGCAGTGTT ATCACTCATG GTTATGGCAG CACTGCATAA TTCTCTTACT
GGCGTCACAA TAGTGAGTAC CAATACCGTC GTGACGTATT AAGAGAATGA

36901 GTCATGCCAT CCGTAAGATG CTTTTCTGTG ACTGGTGAGT ACTCAACCAA
CAGTACGGTA GGCATTCTAC GAAAAGACAC TGACCACTCA TGAGTTGGTT

36951 GTCATTCTGA GAATAGTGTA TGCGGCGACC GAGTTGCTCT TGCCCGGCGT
CAGTAAGACT CTTATCACAT ACGCCGCTGG CTCAACGAGA ACGGGCCGCA

37001 CAACACGGGA TAATACCGCG CCACATAGCA GAACTTTAAA AGTGCTCATC
GTTGTGCCCT ATTATGGCGC GGTGTATCGT CTTGAAATTT TCACGAGTAG

37051 ATTGGAAAAC GTTCTTCGGG GCGAAACTC TCAAGGATCT TACCGCTGTT
TAACCTTTTG CAAGAAGCCC CGCTTTTGAG AGTTCCTAGA ATGGCGACAA

37101 GAGATCCAGT TCGATGTAAC CCACTCGTGC ACCCAACTGA TCTTCAGCAT
CTCTAGGTCA AGCTACATTG GGTGAGCAGG TGGGTTGACT AGAAGTCGTA

37151 CTTTTACTTT CACCAGCGTT TCTGGGTGAG CAAAAACAGG AAGGCAAAAT
GAAAATGAAA GTGGTCGCAA AGACCCACTC GTTTTTGTCC TTCCGTTTTA

37201 GCCGCAAAAA AGGGAATAAG GGCGACACGG AAATGTTGAA TACTCATACT
CGGCGTTTTT TCCCTTATTC CCGCTGTGCC TTTACAATT ATGAGTATGA

37251 CTTCTTTTTT CAATATTATT GAAGCATTTA TCAGGGTTAT TGTCTCATGA
GAAGGAAAAA GTTATAATAA CTTCGTAAAT AGTCCCAATA ACAGAGTACT

FIG.9A-44

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37301 GCGGATACAT ATTTGAATGT ATTTAGAAAA ATAAACAAAT AGGGGTTCCG
CGCCTATGTA TAAACTTACA TAAATCTTTT TATTTGTTTA TCCCAAGGC

37351 CGCACATTTT CCCGAAAAGT GCCACCTGAC GTCTAAGAAA CCATTATTAT
GCGTGTAAGG GGGCTTTTCA CCGTGGACTG CAGATTCTTT GGTAATAATA

37401 CATGACATTA ACCTATAAAA ATAGGCGTAT CACGAGGCCC TTTCGTCTTC
GTACTGTAAT TGGATATTTT TATCCGCATA GTGCTCCGGG AAAGCAGAAG

37451 AAGAATTGGA TCCGAATTCT TAAT
TTCTTAACCT AGGCTTAAGA ATTA

FIG.9A-45

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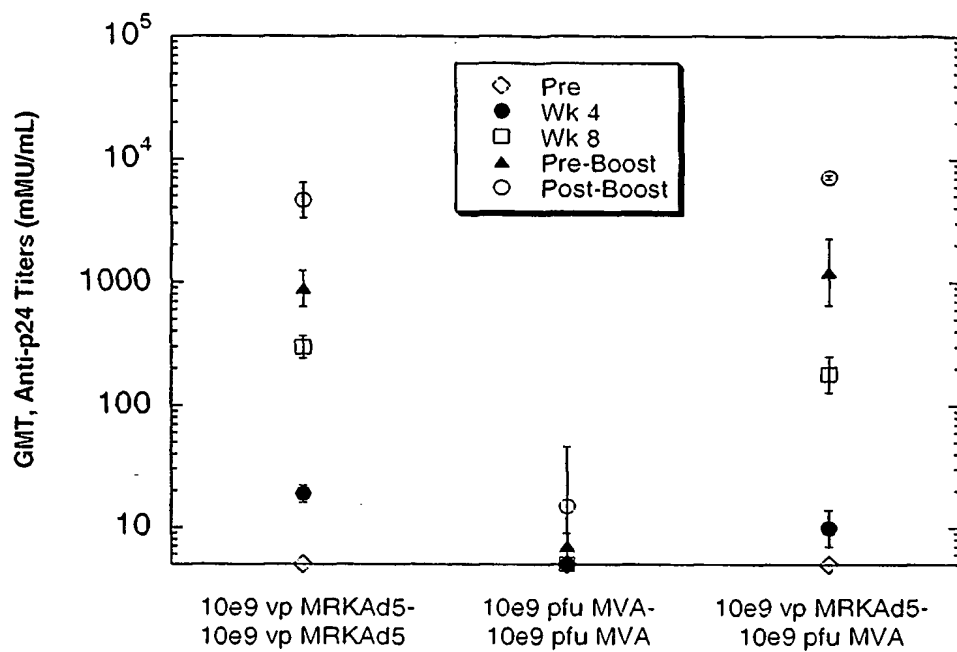


FIG. 10

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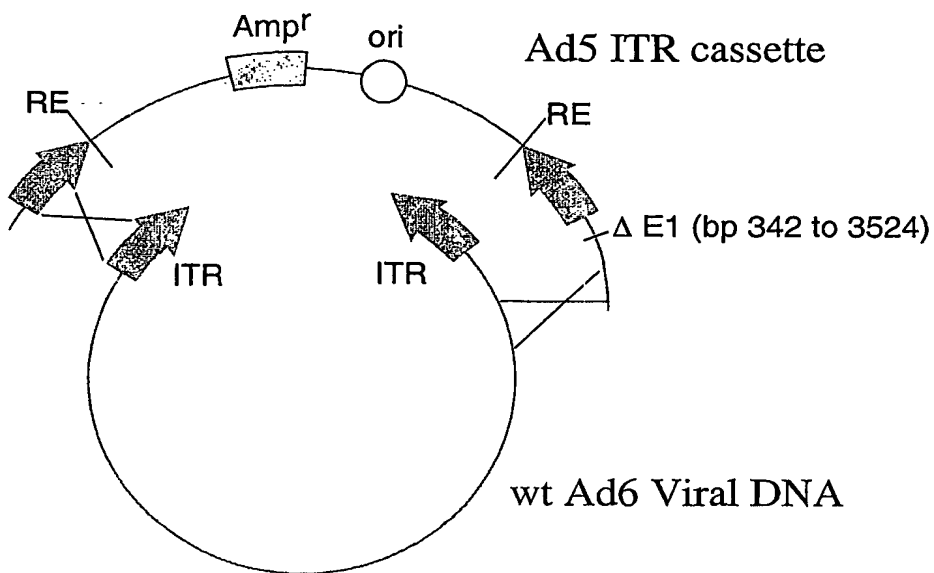


FIG. 11

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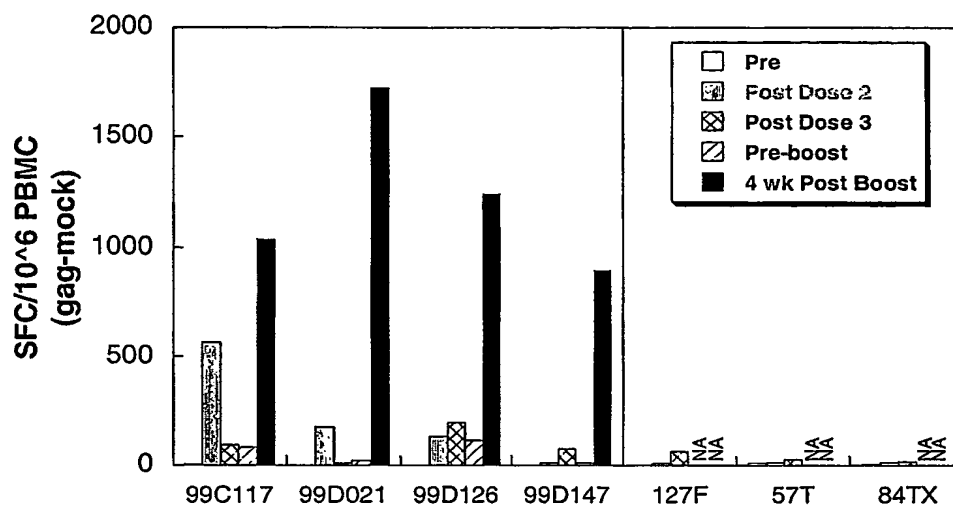


FIG. 12